

Rugged plants

A grad student is developing plants that can withstand harsh climates.

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The sky is blue!

A special centrespread section of *Folio* offers tribute to University of Alberta President Dr. Rod Fraser, as his decade of service to the university draws to a close.

Hot wheels

Dr. Sandy O'Brien Cousins is getting ready to take on the world.

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UNIVERSITY OF ALBERTA

folio

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NSERC awards \$30 million

Education takes leading role in national research program

By Caitlin Crawshaw, Scott Lingley and Richard Cairney

A unique pilot program supporting the research of youth science and math education will be led by a research centre at the University of Alberta.

The Centres for Research in Youth, Science Teaching and Learning (CRYSTAL) is a program of Science and Engineering Research Canada (NSERC), and will be headquartered at the U of A's Faculty of Education.

It's all part of \$30 million in funding recently awarded to University of Alberta researchers from NSERC. Under the program the U of A, the University of New Brunswick, Université de Sherbrooke, the University of Manitoba and the University of Victoria, will share \$5 million to host CRYSTAL centres. While NSERC has funded science promotion endeavours in the past, it has never before funded education research.

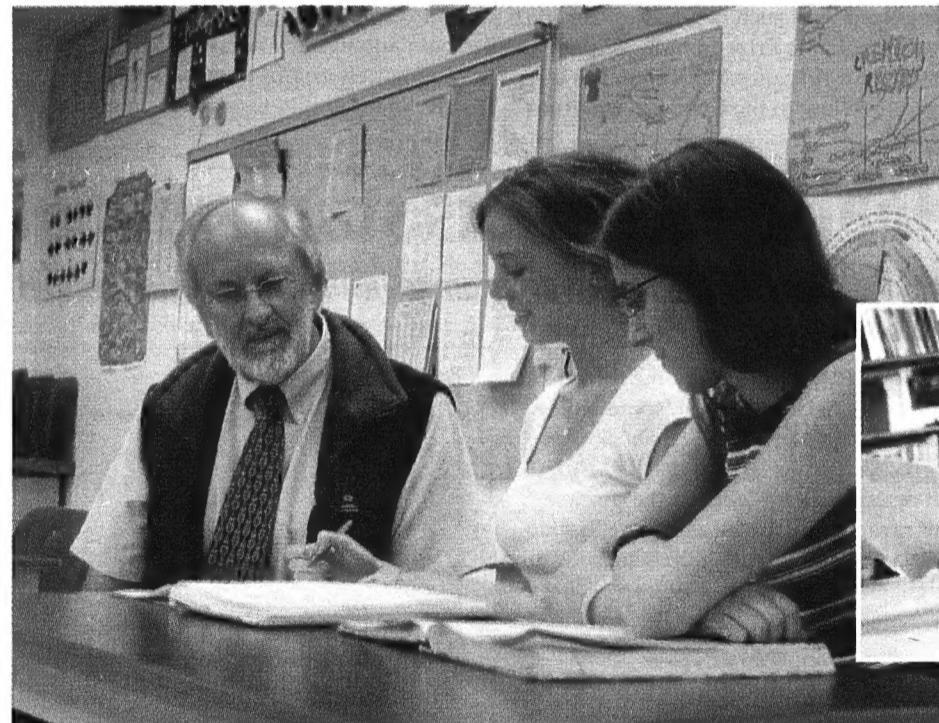
"To have the CRYSTAL program is a tremendous opportunity," said Dr. Fern Snart, dean of the U of A's Faculty of Education. "For the Faculty of Education to access NSERC funding, to be one of the five centres in Canada and to have been asked to be the national lead is noteworthy for both the faculty and the university."

The CRYSTAL program will examine how students from K-12 master science and math skills, and will discover strategies for helping youth become more scientifically and mathematically literate. The U of A's CRYSTAL institute will initially focus on the learning experiences of students in junior high and high school.

The CRYSTAL project's principal investigator is Dr. Stephen Norris, a professor in the Department of Educational Policy Studies and Canada Research Chair in Scientific Literacy and the Public Understanding of Science.

Norris says the program is investigating a challenging problem. "We've seen in all industrialized countries a turning away from science and math by youth, especially females," he said. "It is less of an issue in Canada but everybody believes that we've just got a lag, and no one really knows why. That is part of what we are trying to do in CRYSTAL, is find out why."

He added that an innovative aspect of CRYSTAL is that it requires scientists



Dr. Frank Jenkins works with Harry Ainlay Composite High School students Lauren Pedersen and Julie Tchir. CRYSTAL program principal investigator Dr. Stephen Norris (inset) says one of the program's strengths is collaborative efforts.

and mathematicians and science and math teachers to work together.

"We work with people in schools in collaborative networks. That is what CRYSTAL is all about."

According to Dr. David Pimm, cluster leader in math education with CRYSTAL and a secondary education professor at the U of A, there are many reasons for youth to have a solid understanding of math and science.

The knowledge economy "is increasingly drawing on science and math knowledge," said Pimm. "I think the other (reason) has to do with critical literacy, having an informed citizenship that is able to understand and partake in decisions involving science and mathematical text."

Dr. Frank Jenkins, director of CRYSTAL outreach and director of CMASSTE, also emphasized the importance of scientific literacy in society.

"A lot of times in the newspaper we have research reports about this kind of food or this kind of drug that's important for your health, and citizens have to be able to understand the difference between

anecdotal evidence presented by everyone around them and the research-based, evidence-based way of knowing," said Jenkins.

"And they have to understand what a double-blind study is, and what a peer-reviewed or refereed journal is, versus something that's published on the Internet. They have to understand how we can be certain or more certain about the kind of knowledge that is presented to us as citizens."

While NSERC has funded science promotion endeavours in the past, it has never before funded education research. However, this is not the first time the Faculty of Education has housed a science and math education research institute. In 1999, Imperial Oil donated \$1 million to the faculty to form the Imperial Oil National Centre for Mathematics, Science, and Technology Education (IONCMSTE).

Having exhausted its Imperial Oil funding, the centre is now known as the Centre for Mathematics Science and Technology Education (CMASSTE) and will

work in tandem with CRYSTAL, due to the similar nature of both institutes.

"We had a very successful centre which was one of the first Imperial science centres for science and technology, and that centre has just recently completed its funding, so this is a perfect segue way," said Snart.

"CRYSTAL is just allowing that potential to continue but also to be realized to a greater extent."

The \$30 million disbursement of grants and scholarships to University of Alberta faculty and students from NSERC will not only fund current research, but also bolster training for future researchers in dozens of fields, including chemistry, engineering, life and material sciences, and mathematics.

NSERC announced \$380 million in grants for 3,040 professors across Canada, as well as \$111 million in graduate student and postdoctoral scholarships and \$19.1 million in undergraduate student research awards (USRA) earlier this month. At the University of Alberta 173 grantees will receive a total of \$22,508,500, while 157 graduate students will receive \$6,460,800 in scholarships, with an additional \$949,000 in USRAs.

Dr. Norman Beaulieu, the iCORE Research Chair and Canada Research Chair in Broadband Wireless Communications, in and a professor in the Department of Electrical and Computer Engineering, received the largest NSERC discovery grant for electrical and computer engineering in Canada at \$85,000.

"The discovery grant is significant because it means that, in a peer-review process that's very rigorous, their committees have placed you above all the other researchers," Beaulieu said.

He noted that the three largest NSERC discovery grants in electrical and computer engineering were awarded to Alberta

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It's the little things that count

Dr. Liang Li is honoured for his pioneering chemistry research

By Phoebe Dey

Sunday marks the beginning of the work week for Dr. Liang Li. Since his arrival at the University of Alberta 16 years ago, Li has spent part of almost every weekend on campus, preparing for the days ahead. That commitment has paid off for the Killam Annual Professorship recipient.

In his relatively short research career, Li, with the Faculty of Science, has propelled himself to the top of his burgeoning field of mass spectrometry – an area that deals with the detection, analysis and identification of biomolecules that could ultimately be used in the treatment of diseases.

Li first became interested in bioanalytical mass spectrometry as a graduate student in chemistry at the University of Michigan. Since then the field has exploded, due in part to two research groups, one from Germany, the other from the United States, that developed MALDI (Matrix-Assisted Laser Desorption Ionization) and ESI (Electrospray Ionization) techniques in the late 1980s and was the subject of the 2002 Nobel Prize in Chemistry.

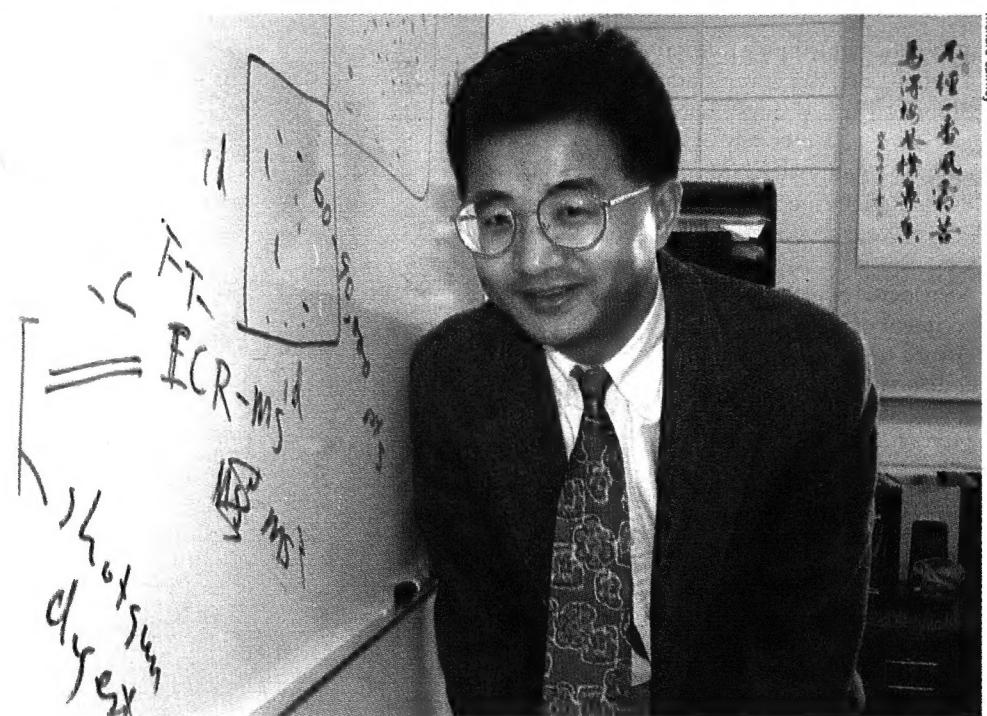
"Before that development we had a hard time analyzing biological compounds because they were difficult to ionize in a mass spectrometer," said Li. "Because of this discovery, compounds could be analyzed quite easily using mass spectrometry. Since then, the field has taken off."

"The timing is perfect for us with the completion of the human genome sequence. Mass spectrometry can now be used to identify and quantify proteins based on the protein sequences encoded by the genome. Moreover, mass spectrometry can be used to determine protein modifications which are not encoded by the genome."

Understanding the biological functions of individual cells will make it easier for drugs to target and ultimately better treatment of disease.

Li has had a significant impact on this new discipline of proteomics. He has built and designed new mass spectrometers and related techniques that can make more sensitive, precise and speedier measurements than anything previously used. Because of his innovation, Li holds the "world-record" for the detection of the smallest amount of peptides by mass spectrometry as well as the highest mass detection. This means that Li is poised to use his techniques to identify the major protein changes in single or very few mammalian cells, making it easier to compare individual cells rather than whole tissues.

Li does not hesitate to share his much sought-after expertise with the scientific community. He helped establish and now heads the Alberta Cancer Board Proteomics Facility at the U of A, which supports cancer researchers in both Edmonton and Calgary. He is a consultant for several companies, serves as an advisor to Hong Kong Mass Spectrometry Society and is a member of the editorial board for two journals in his field. His work has been nationally recognized with such honours as the 2002 Young Explorers Prize from the Canadian Institute for Advanced Research, the election as a fellow to the Chemical Institute



Dr. Liang Li is at the top of the field of mass spectrometry, and has been awarded a Killam Annual Professorship.

of Canada in 2001 and the Rutherford Memorial Medal in 2003 from the Royal Society of Canada.

And the praise from his colleagues is endless. Described as a quiet "cheerleader for the entire team," Li is known as a "truly collegial colleague," who helps others when he can.

According to Dr. Martin Cowie, chair of the Faculty of Science's Department of Chemistry, Li's generosity is far reaching.

"Liang is not only a first-rank scientist, he is also a gifted and dedicated teacher and mentor to students both in the classroom and in the laboratory," said Cowie. "Liang's enormous energy is evident not only in his ability to manage an enormous

research group and to publish and present his work at a rate that astonishes all of his colleagues, he is also a dedicated member of the scientific community to which he gives generously of his time."

Research papers and expensive machinery aside, his instruments range from \$200,000 to \$1 million, Li finds much of his joy through his students. "I love to work with both undergraduates and graduates. They're the most important product of a university and it's such a pleasure to watch a student walk into your lab the first time, overwhelmed by all the machinery and then leave after a few years with so much confidence and ready to contribute to the world. It's very exciting."

folio

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Health scientists stand on guard for Mongolia

Prof develops sex education program to insulate the region from HIV/AIDS in Asia

By Ryan Smith

Although Mongolia sits in the middle of the vast Asian continent, some believe it is actually on a precipice. So far, the spread of HIV/AIDS has largely spared Mongolia, but researchers are worried the disease will ravage the country as it has Siberian Russia and China, Mongolia's surrounding neighbors.

"AIDS in Asia is a hugely growing problem. It's just a fluke it has not really hit Mongolia yet," said Dr. Lory Laing, a public health sciences professor at the University of Alberta.

Only three cases of HIV/AIDS have been reported in Mongolia to date. Laing believes this incredibly low number is due to Mongolia's relative isolation from the rest of the world, but she also feels many cases of the disease have gone unreported, and the number of reported cases will likely rise steeply in the near future.

Statistics show that more and more young Mongolians are having sex, the sex trade in Mongolia's growing urban centres is prevalent, more and more tourists are discovering Mongolia, and other sexually transmitted diseases, such as syphilis and gonorrhea, are already widespread. These factors point to a potential HIV/AIDS crisis in the country, but Laing is working hard to prevent it.

Working with graduate students and Mongolian health officials, Laing developed a sexual health education program for the Mongolian school system – and she's excited because evidence now shows that the program is working. A paper on the program has been published this month in the journal *Social Science and Medicine*.

One of Laing's graduate students,



Dr. Lory Laing's peer-centred education program has already had good results.

Amanda Roberts, worked with Laing to develop the educational unit, a peer-centred program, about five years ago. They based the unit on a similar program that had worked at the U of A. The idea driving it, Laing said, is that it is more effective and comfortable for students to learn about sexual health from a trained peer than from an authority figure, such as a teacher.

Since 2000, Laing and Roberts have each traveled to Mongolia to train teachers and students to implement the program in more than 30 schools. Another U of A graduate student, Rosario Cartagena, followed up with a visit to Mongolia in 2004 to see if

the program is working.

Cartagena compared the results of interviews and surveys of more than 700 students from schools that had implemented the program and schools that had not. She found that some adjustments could be made to improve the program – the trained peer educators need more support to answer all the questions they are getting, for example – but overall, the program is improving both sexual health knowledge and behaviours.

"It's rare to know whether or not programs such as this one are working, and now we have the data to prove that it is," Laing said. "It's really exciting."

The Canadian Institutes of Health Research Global Health Fund and a Mongolian public health department initially sponsored the U of A program, and now a German development agency has joined them to fund a pilot project to expand the number of schools that will make the program a required part of their curriculum.

"Mongolia is such a beautiful and fascinating place, and it's filled with such wonderful and friendly people," Laing said. "I really hope we can make a difference there."

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Grad student earns Young Scientist Footsteps Award

Researcher developing plants that may one day be more resistant to extreme growing conditions

By Scott Lingley

Research which may one day produce plants that can survive adverse soil conditions such as drought, salinity and cold, has earned a University of Alberta PhD student a national award for achievements in plant biotechnology.

Sanjeeva Srivastava, a student in the Department of Agricultural, Food and Nutritional Science, is the U of A's second recipient of the Young Scientist Footsteps Award from the Council for Biotechnology Information and Genome Prairie, which carries with it a \$5,000 cash award. U of A PhD student Kiersten Stead won the under-30 award last year for her work developing fungal resistance in canola.

"This award is very encouraging for me because it's at the national level, so this shows how good the research is that we're doing at the U of A," Srivastava said.

Srivastava, who is the first international student to receive the award, was recognized for his work developing plants that may one day be more resistant to adverse growing conditions such as salinity, drought and cold. His research involves using two-dimensional electrophoresis and mass spectrometry to identify proteins in the shoots and roots of pea and canola plants that are significantly altered by high salt content in soil.

Through a better understanding of how these proteins help the plant withstand salinity and other water-deficit stresses, Srivastava said, transgenic plants can be developed that may be more resistant to adverse growing conditions. This will benefit farmers in regions with marginally arable land and improve yields in north-erly climates as well.

"We hope to enhance our knowledge of these proteins and maybe we'll be able to make plants that will be able to better withstand the harsh conditions of Alberta," Srivastava said. "If we can make a seedling that can germinate even one week earlier, that will be so significant for Alberta since we have such a short growing season."

Srivastava, who came to the U of A in



Sanjeeva Srivastava has been awarded the Young Scientist Footsteps Award.

2002 after studying in his native India, has distinguished himself in his department by earning 16 major scholarships in his time here. Dr. Nat Kav, Srivastava's research supervisor, nominated him for the Young Scientist Footsteps Award.

"I thought it was good for him to be nominated because he has put a lot of effort into this project - he came into the salinity research project in my lab, he got

things going, he was my first PhD student, so he was taking on quite a bit," Kav said. "He worked hard, he showed dedication to the project and many of the things he has done have become quite successful and mean a lot to my research program in the long run, so I thought he was quite deserving of the award."

Kav said salinity research is particularly relevant as the growing population puts

increasing demands on the limited amount of usable farmland in the world.

"Fifty per cent of the arable land is going to be salinized by the year 2050, so we are dealing with a significant problem," Kav said. "The long-term applications (of our research) are to improve agricultural productivity under marginal soil conditions, increasing yield and world food production."

While the Young Scientist Footsteps Award is intended to help the recipient further his or her education, Srivastava said he would like to use some of the money from the award to encourage high school students to pursue their interests in biotechnology.

"I've done some volunteering to share knowledge and communicate with high school students - I help them with biotech projects and I've spoken at some schools," he said. "Instead of going to their schools and talking to them about what we're doing, it might be good if high school students come to the university, they give a presentation on ideas they have, especially in biotechnology, and we do some competition for them. I was thinking I could put up some money for the winner. It will motivate them that they get a prize and that they get a chance to present at the university, and I will feel better that I did something for the community."

The Young Scientist Footsteps Award was established in 2003 and has been awarded to nine graduate students at seven universities in Canada. The Council for Biotechnology Information is an organization founded to share information about biotechnology with consumers, relying on scientific research, expert opinion and published reports as the basis for its communication. Genome Prairie is a not-for-profit corporation that directs and funds research and development in the new field of genomics, proteomics, bioinformatics and the related areas of ethics, legal and the social impact of genomic research. ■

Ocean climate predicts elk population in Canadian Rockies

U of A doctoral student is the first researcher to show this correlation

By Ryan Smith

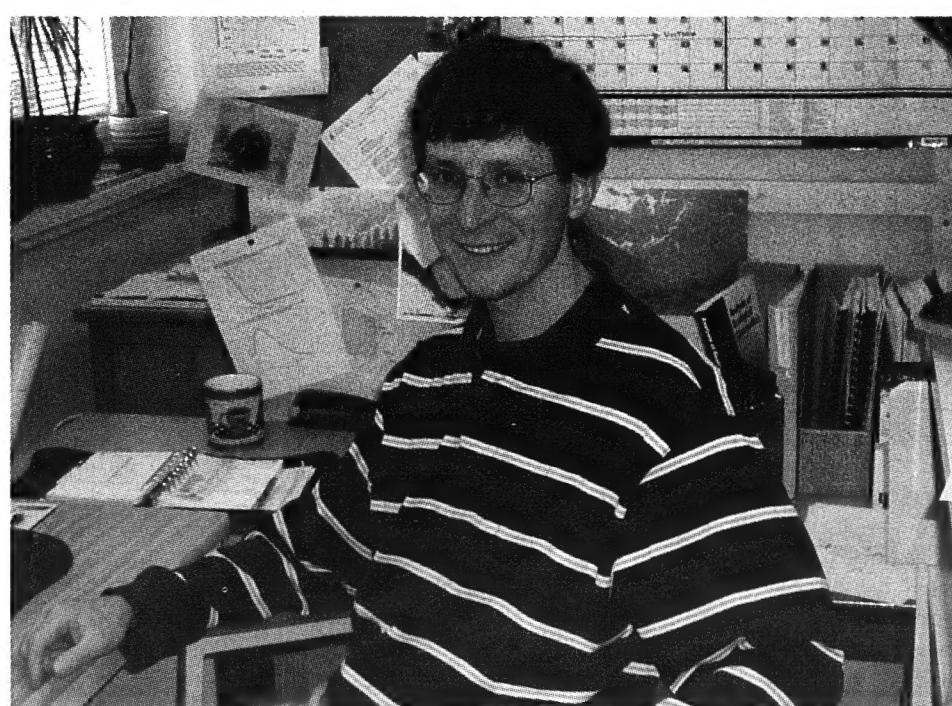
Mark Hebblewhite can look at specific climate statistics from the north Pacific Ocean and tell you how the elk are doing in Banff National Park. The University of Alberta doctoral student is the first researcher to show a correlation between the North Pacific Oscillation (NPO) and a mammal population.

Based on many climate-related ocean measurements, researchers are able to determine positive, average and negative NPO values. A positive NPO translates into a milder climate in most of western North America, but it means more severe weather in the mountain regions, where climate is more complex.

Hebblewhite analyzed the elk population in Banff National Park from 1985 to 2000 and cross-referenced his results with NPO values during that period. He found that positive NPO values translate into elk population declines in the park.

Severe weather in the mountains means colder and snowier conditions than usual. More snow is bad news for elk, which have heavy bodies and long, narrow legs with small hooves. The deeper the snow, the further they sink. Conversely, wolves have relatively light, sleek bodies and big, wide paws that act like snowshoes. In the Canadian Rockies, wolves rely on elk meat for 40 to 70 per cent of their diet.

"The elk are already at a deficit in the winter. There is less grass to eat, and their



Mark Hebblewhite has drawn a connection between the northern Pacific Ocean climate and the Banff National Park elk population.

bodies have to work harder and use more energy to stay warm," said Hebblewhite, who studies in the U of A Department of Biological Sciences.

Cold, wet weather alone is enough to decrease an elk population, but when wolves are added to the environment, elk become especially vulnerable. Hebblewhite

found that the combination of positive NPO values and wolf predation were related to 50 per cent declines in the elk population.

Hebblewhite noted that positive NPO values and severe weather in the Canadian Rockies are occurring more frequently, and the trend is likely related to global

warming. However, he added that the elk are not a threatened because wolves, their main predator, cannot kill and eat fast enough to wipe out the whole population. Also, wolves tend to kill one another as their available prey dwindles, so a stasis is maintained naturally.

Nevertheless, Hebblewhite is excited about his findings because they provide a deeper understanding of the complex relationship between climate and ecosystem, and they open the door for more research in the area. The Atlantic Ocean climate has already been linked to ecosystem changes in Europe, Greenland and eastern North America, but Hebblewhite is a pioneer in working with NPO values.

"It's important to figure out what climate change means to us in terms we can understand," he said. "The more we know, the more we can do to produce the outcomes we desire and prevent the ones we don't."

In 2002, Hebblewhite won the Canon National Parks Scholarship for the Americas, an award worth \$78,000 US over three years. More recently, he won the U of A Andrew Stewart Memorial Prize for his publication record as a grad student. He has authored seven published papers in the past four years. His research on the relationship between NPO values and the elk population in Banff National Park was published this spring in the *Journal of Animal Ecology*. ■

Work isn't just about the pay cheque for skilled chemistry technician

Dr. Angelina Morales-Izquierdo is one of two U of A recipients of the Nat Rutter Outstanding Technician Award

By Shawn Benbow

Dr. Angelina Morales-Izquierdo, a mass spectrometry specialist in the Department of Chemistry, had no idea she had been nominated for the Nat Rutter Outstanding Technician Award when she received an e-mail congratulating her.

"I had no idea that I had been nominated," she said, "I had no idea this was going on."

The Nat Rutter awards are presented to excellent technicians at the University of Alberta who have made significant contribution to the university community.

"I do my best for everyone, and I get along with everybody," Morales-Izquierdo said.

"It's not just earning your salary, it's doing your best and liking what you do - and to some extent, it's for my own satisfaction."

Mass spectrometry refers to the techniques involved in determining the composition of a molecule using highly sophisticated technology. Morales-Izquierdo says that it's her job to use mass spectrometry to map out the individual atoms that constitute a molecular sample provided to her.

"We have a great variety of professors here with very different research and experiments, but they all need to know what molecule is in the vial they bring down for me," she said.

She then analyzes the sample using one of several mass spectrometry techniques to determine the molecular makeup of the molecule.

"If there is something not expected, I try to explain it as well - either the reaction went in a different direction, or further puri-

fication must be done, or interpretation of another analysis might be wrong," she said.

"So there's a lot of communication there that I'm willing and ready to do, and I think that that's appreciated."

Although the mass spectrometry lab is within the Department of Chemistry, Morales-Izquierdo works with people from many other faculties and universities.

"I just did a sample from Denmark yesterday," she said. "Some of these people have been here before, and they know the level of care we have--they trust that their samples are going to be handled very carefully. Other people have sent their samples to other labs and the tests failed because the other labs couldn't get results. However, they feel confident that we can get the results."

Ultimately, it's the quality of her work is what matters for Morales-Izquierdo. "I just feel that if I can do my work well, it's worth doing. I don't mind the number of hours, and if I can give the professor or the researcher the push they need to keep going in their research, that makes my day," she said.

In addition to her professional work, Morales-Izquierdo volunteers in the department, taking care of the plants in the Chemistry Building as well as some of the campus wildlife, including the family of ducks that live in the V-wing courtyard.

"Professionally I think I'm solid, and outside of that, I try to be welcoming and warm - with all creatures, not only people," she said. "I think that people know me for that - some may think I'm crazy - but all in all, I think they like me." ■



Dr. Angelina Morales-Izquierdo

Juggling fossils and teaching all in a day's work for award winner

Pamela Correia of the Department of Anthropology wins Nat Rutter Outstanding Technician Award

By Shawn Benbow

As a technologist and collections manager for the Department of Anthropology, Nat Rutter Outstanding Technician Award recipient Pamela Correia does so many jobs she can hardly remember them all.

Correia manages numerous department collections, including hominid fossils and human skeletal collections, as well as the ethnographic and media collections. She juggles this alongside her work as a sessional lecturer, in addition to teaching other instructors in the department about the artifacts available for study.

She says she came to the field in the mid-1980's, obtaining her master of arts in physical anthropology, with a specialization in cremated bone.

"I got interested in it because of Dr. Beattie [a professor in the department] and the Hinton train crash [of 1988]," she said. "The crash happened when I was just finishing my undergraduate degree and I had seen some really interesting presentations on it, so I decided that was what I wanted to do."

Hired by the department in 1990 as the collections manager for the hominid fossils and the human skeletal collections, Correia has been adding tasks and titles to her position ever since.

Correia is particularly proud of the casting program she put into place. "I really enjoyed developing the casting program - it was a challenge getting everything up and running," she said. "I learned [the casting techniques] at the Canadian museum of civilization and came back and started up

our program. It opened up a lot of avenues for us and our collections and what we can do with them."

Many times students or professors will bring artifacts in from the field, but because of agreements with the communities they must return the originals, most often for reburial.

"However, we make replicas for the community to put on display, and we get to keep a copy for ourselves for instructional use," she said. "By doing that in-house, it doesn't cost the communities a fortune."

"That program has been neat because I've been able to work with everything from old stone tools to forensics cases - I've even made moulds of gunshot wounds," she said.

Aside from the collections work, Correia organizes and sets up the anthropological labs. People of all ages have been in her labs over the year, including students from elementary and high school, as well as university students. And when the department puts on special classes for professionals, Correia works with police, RCMP, and forensics experts who try to learn the latest techniques and ideas.

"I get people who come in from classics, religious studies, art, geography, human ecology - it's a huge range, it keeps you on your toes," she said. "It's fun doing research as well. Right now I'm working with a bunch of grad students, and we're all working together on a project. That's fun because it keeps me academically interested."

In fact, Correia doesn't fancy herself



Pamela Correia

working elsewhere any time soon.

"It's a fun job, and I always tell everyone that they're come in to my hobble - which is what I call my little office - and I'll be sitting with my fake eyelashes and

ruby-red cheeks, and I'll be 67 years old and still working for them. And I think that will be okay. I don't feel a need to go off and do something somewhere else because I think I've got it all here." ■

President's choice

Honorary degree recipients for presidential installation named

Five outstanding Canadians will receive honorary degrees from the University of Alberta during the installation of president-designate Dr. Indira Samarasekera on September 25, 2005.

The honorary degree recipients are:

SUSAN AGLUKARK

An Inuit singer and songwriter, Susan Aglukark uses her music to communicate messages of peace, hope and understanding, intertwining traditional Inuit chants with contemporary pop melodies. Aglukark has performed for Her Majesty Queen Elizabeth II, Nelson Mandela, and many others. In 1993, Maclean's magazine named her one of "Canada's 100 leaders to watch for" and Up Here magazine named her "Northerner of the year." For her work she's received many awards, including the Vista Rising Star Award from the Canadian Country Music Association in 1994, and a Juno award in both 1994 and 1995. In addition to her singing, Aglukark acts as a powerful role model for Inuit youth, emphasizing the importance of education and of maintaining Inuit language and culture. Aglukark's efforts will be honoured with a Honorary Doctor of Laws.

DR. JOHN EVANS

Dr. John Evans is known nationally and internationally as a leader in medical education, business and public service. In 1965, he became the founding dean of medicine at McMaster University. As an innovator in medical education, he provided unique leadership in developing new approaches to medical education and curriculum. As president of the University of Toronto from 1972 - 1978, he championed the new University of Toronto Act and also focused on the university's accountability to the public and its community outreach.

Evans has played a prominent role in international health by conducting studies on population-based medicine for the Rockefeller Foundation, and served as chair of the Rockefeller Foundation and director of the Population, Health, and

Nutrition Department of the World Bank. Additionally, he's a leader in various initiatives and business ventures including founding chairman of the Canada Foundation for Innovation (CFI). For his influential work, Evans will receive an Honorary Doctor of Science.

JULIE PAYETTE

Julie Payette is currently the Chief Astronaut for the Canadian Space Agency. She received a Bachelor of Engineering (Electrical) degree in 1986 from McGill and a Master of Applied Science in Computer Engineering in 1990 from the University of Toronto. When she joined the Canadian Space Agency in 1991, she simultaneously commenced a demanding training program, inaugurated an internal research program and began work as a technical advisor for the Mobile Servicing System, Canada's contribution to the International Space Station program. Payette flew on the space shuttle Discovery from May 27 - June 6, 1999. Payette also became the first Canadian to participate in an International Space Station assembly mission and to board the space station. In addition to these accomplishments, she's a licensed pilot and an accomplished vocalist, is conversant in six languages and is devoted to encouraging Canadian youth to pursue careers in science and engineering. For her work both on Earth and in space, she will receive an Honorary Doctor of Laws.

DR. JOHN POLANYI

Dr. John Polanyi is the recipient of the 1986 Nobel Prize in Chemistry for his work on the dynamics of chemical elementary processes. Throughout his career he has made lasting contributions to the field of chemical reaction dynamics. Polanyi obtained a Bachelor of Science in 1949 and a PhD in 1952 from the University of Manchester. He became a postdoctoral fellow at the National Research Council of Canada laboratories in Ottawa and then a research associate at Princeton University. In 1956, he began his career as a professor



Famed playwright Sharon Pollock, seen in a U of A Studio Theatre performance of her play *Moving Pictures* in December, will receive an honorary degree in July.

at the University of Toronto. Polanyi has played an active role in many organizations, including the Ontario Laser and Lightwave Research Centre, the Science Advisory Board, the Max Planck Institute for Quantum Optics, the Institute for Molecular Science in Okazaki, Japan and the American Academy of Arts and Science Committee on International Security Studies.

Polanyi has received many other awards and honours, including the Henry Marshall Tory Medal of the Royal Society of Canada, the Wolf Prize in Chemistry, the Royal Medal of the Royal Society of London and the John C. Polanyi Lecture Award of the Canadian Society for Chemistry. For his multitude of accomplishments, Polanyi will receive an Honorary Doctor of Science.

SHARON POLLOCK

One of Canada's leading English-language playwrights, Pollock is celebrated



Canadian astronaut and U of A honorary degree recipient Dr. Julie Payette.

for her thought-provoking themes and innovative dramatic structures. She has published 13 plays that have been produced across Canada, and around the world. She has written award-winning plays for radio, television, and children's theatre, and is an accomplished actor, director, and theatre administrator. Pollock received national acclaim for her play *Blood Relations* (1981), which told the story of Lizzy Borden, the infamous New England woman tried and acquitted for killing her father and step-mother in 1892. The play has been translated into French and Japanese, and produced across Canada and in London and New York.

A two-time recipient of the Governor-General's Award for Drama, she is also an outspoken and uncompromising advocate for Canadian drama. For her fine work on and off the stage, Pollock will receive an Honorary Doctor of Letters ■

President-elect named to expert panel on tech transfer

Dr. Indira Samarasekera will help a federal panel determine strategies for commercializing research

By Scott Lingley

University of Alberta president-elect Dr. Indira Samarasekera has been invited by federal Minister of Industry David Emerson to join an expert panel that will advise the Government of Canada on ways to ensure new technologies and services make their way to the marketplace.

The panel will review reports and proposals from public and private stakeholders, conduct round-table discussions across the country and advise on an action plan to improve commercialization outcomes in Canada. Samarasekera said she welcomes the opportunity to gather input from varying perspectives, as well as bring her own experience as an academic and administrator to the panel.

"I was very honoured and very pleased to be asked, because this whole area is one I've had a long interest in, both as a professor in engineering, but also subsequently as vice-president (research) at the University of British Columbia," Samarasekera said. "My appointment is recognition that the University of Alberta is a leader in this area, that there are some very important discoveries that have come out of the university's research and scholarship, and it's a signal that Alberta has a role to play and a contribution to make."

Samarasekera said the panel will focus on improving knowledge and technology transfer between the public and private sector, creating a positive business environment for entrepreneurship, and assessing the financial and legal infrastructure for



Dr. Indira Samarasekera

fostering commercialization of new products and services. She added that she's looking forward to exploring the role of universities and other institutions of learning in preparing people to participate in the economy.

"I think the number one issue is, do we have the capacity and programs to help young people and people at any stage of their career to be entrepreneurial?" she said. "Are we exposing our post-docs, graduate students, and undergraduate students to research opportunities so that when they leave the university they see the creation of new companies? Do they see that as a viable and exciting career pos-

sibility and are we encouraging enough people to think in those terms? For universities, that's a challenge."

She added that researchers and research institutions imbued with the entrepreneurial spirit are only half the battle for improving technology transfer in Canada.

"A big challenge for Canada has always been receptor capacity - do we have enough companies in Canada that are receptors for ideas coming out of universities? You can't always spin off a new company; frequently you require a larger company to be a receptor, to be an incubator, to be a nurturer of some of the new ideas and make the necessary investments and take

the risks to create a product or service."

Samarasekera will join notable figures in Canadian business on the panel, including Germaine Gibara, president and founder of Avvio Management Inc., a change and management consulting firm specializing in the financial and technological sectors; Mike Lazaridis, president of Research in Motion, inventor of the BlackBerry wireless communications platform and chancellor at the University of Waterloo; Cindy Lum, chief executive officer and chief operating officer of the British Columbia Innovation Council; John Riseley, co-founder and chairman of Clearwater Seafoods Limited Partnership, a seafood harvesting, processing and distribution business; and Joseph Rotman, who has been involved in establishing a number of private and public companies in oil trading, petroleum distribution, oil and gas exploration, merchant banking, real estate and venture capital.

A "rapid set of deliberations" is called for, Samarasekera said, as the panel has been asked to report to the government by the fall of 2005.

"I'm looking forward to representing Alberta and the university, and I'm looking forward to hearing the views of many people in business, from the university sector and from other areas in the province, so I can factor those ideas in or take them to the panel as well."

Samarasekera begins her five-year term as president of the University of Alberta July 1. ■

The cycle continues

Former Olympian gears up for World Masters Games

By Richard Cairney

When the World Masters Games begin in Edmonton this summer, Dr. Sandy O'Brien Cousins will be getting involved in a very intense way. On July 22, the day the games begin, she'll ride a mountain bike race through Terwillegar Park's gnarled, hilly trails. The next day, she'll cycle a steep 20-km route as fast as she's able, in a time trial. And yet again, the following day, she'll ride in the Masters road race, an 80-km epic snaking up and down Groat Road in a route punctuated by steep ascents, like Emily Murphy Park Road, and speedy descents.

But the events won't be over yet for Cousins. She winds things up in a criterium road race at the Legislature grounds July 29. "You ride like an animal for the first 25 minutes then they ring a bell and it's a three-lap race - you go like crazy and if you're dropped or lapped you're out of the race," she said. "It's a challenge because you're going 60 km/h downhill on one part of the course then climbing uphill on the other half."

It's an impressive challenge for Cousins, a professor in the Faculty of Physical Education and Recreation who is racing in the 55 - 59 age category. She began cycling in 2002 and competed in her first road race at the 2002 World Masters Games in Melbourne, Australia.

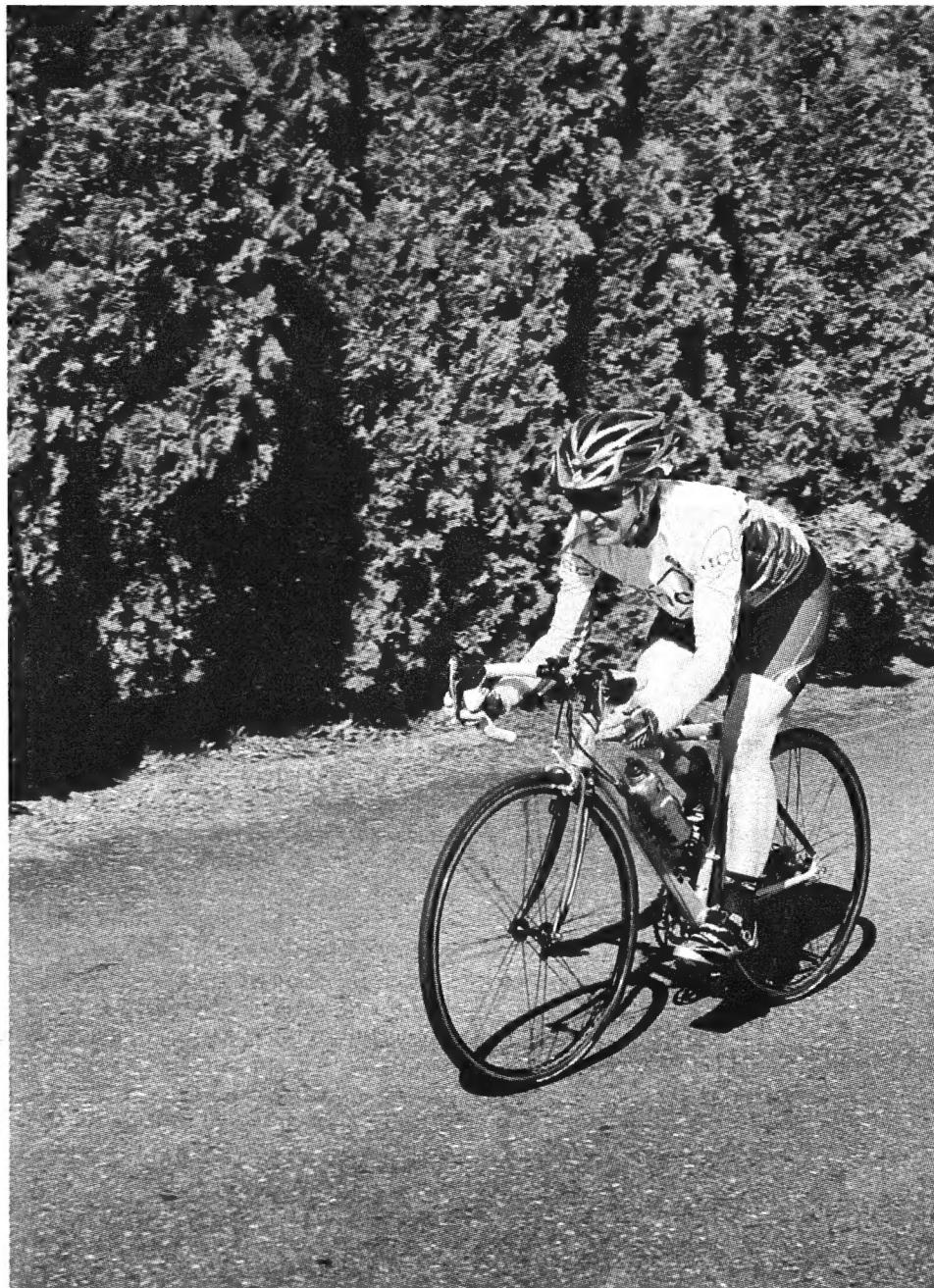
"Nineteen women showed up and I didn't know there were that many women riding in the whole world," she said. "I was a beginner and I had never been in a peloton (a pack of cyclists racing at close quarters) in my life, so I started off quite terrified. I didn't know where to go or what to do or where in the pack I was supposed to be."

A long hill strung the group out and one of the riders began to organize the competitors who were falling behind.

"I heard this voice saying, 'Well ladies, there are the medal winners up front there, would anyone like to start a second pack?' And I said I would because I thought if I could stay with any pack, that would be it."

Cousins hung on to the pack, taking a few turns up front but, for the most part, conserving energy by drafting off the other cyclists.

"I was hanging on for dear life," she said. "We were doing an average of 35 km/h and the best I could do on my own was 30. We had a good drafting thing going



Sandy O'Brien Cousins will race in four cycling events at the World Masters Games in Edmonton this summer.

on and I pulled a bit in the first part of the race, then I apologized and slid back in again. The drafting effect is quite significant."

As the pack approached the finish line, the competitors began another discussion, about finishing the race. With winners already past the finish line, would they abandon one another and sprint it out anyways? Cousins offered a solution, suggest-

ing the cyclists she was with line up side-by-side and finish at the same time. They did just that, but Cousin lagged behind, having drafted off them for so long.

"We were getting very close to the finish line and all of a sudden they opened up a space for me and I very carefully moved in," she said. "It was collaborative racing. The officials hated us because they couldn't get our numbers as we crossed."

"A lot of people don't get that this is their chance to celebrate, to feel what it is like to be in the Olympic Games. People will be here from all over the world. You get this incredible festive event, you become a celebrity for 10 days and get to put your toes on the line with some really awesome athletes and make them work harder for their medals."

— Dr. Sandy O'Brien Cousins

As members of the second pack congratulated one another, Cousins looked around for the race winners. "They looked sick and pooped out and I thought, 'Who are the winners here?'"

It was an unforgettable day, but Cousins just might find herself in a more competitive situation this time around. She has been training for a few years now and has seen marked improvements. This year she has been training with the Juventus Cycling Club and every Thursday races in the Edmonton Masters Cycling Club's Thursday night race series. This weekend she will compete in the Edmonton Road and Track Club's annual Pigeon Lake Classic road race.

"It has been an awesome time training," she said. "I was becoming competitive last year and I am competitive this year."

The U of A is hosting many of the events at its own facilities, as part of the province's centennial celebrations. And the university has challenged 1,000 of its faculty and staff to volunteer or participate in the July 22 - 31 games. Cousins, who competed as a gymnast at the 1968 Olympics in Mexico, said competing in the World Masters Games is much the same as being in the Olympics.

"A lot of people don't get that this is their chance to celebrate, to feel what it is like to be in the Olympic Games. People will be here from all over the world. You get this incredible festive event, you become a celebrity for 10 days and get to put your toes on the line with some really awesome athletes and make them work harder for their medals."

"It is a fun time it - it's a big party is what it is." ■

"Cool" research leads to licensing deal

Cryogenics research at U of A spawns a deal with a Vancouver company

By Ryan Smith

A Vancouver company is betting that cryogenics research at the University of Alberta will set a new standard for stem cell storage and preservation.

Researchers at the U of A have developed a way of cryogenically preserving blood stem cell cultures without the use of dimethyl sulfoxide (DMSO) or other traditional cryoprotective chemicals. LifeBank Cryogenics Corp. has signed an exclusive licensing agreement with the U of A to develop the research commercially.

Cryogenically preserved blood stem cells are used to treat cancers and blood disorders, and additional potential therapies for spinal cord, cardiovascular and neurodegenerative disorders, among many other ailments, are in development worldwide.

Currently, the universal method for blood stem cell cryopreservation requires the use of DMSO, which are less than ideal because of potential toxic effects. Doctors who use cryogenically preserved cells for transfusions have ways of reducing the toxic effects of DMSO, but these ways reduce the number of cells that survive the process, which jeopardizes the success of the transfusions.

The U of A researchers have used computer modeling as a tool to guide biological experimentation to develop a novel method of cryopreservation that eliminates the use of DMSO - and its toxicity - and thereby increases the retention of cells. The new method has been demonstrated on blood stem cell cultures.

"This research definitely will have huge repercussions, not just in hematopoietic stem cell therapy, but in the whole field of cell storage and transportation," said Lisa Ross-Rodriguez, a U of A graduate student, who works under the joint supervision of Dr. Locksley McGann, a biophysicist in the U of A Faculty of Medicine, and Dr. Janet Elliott, a thermodynamicist in the U of A Faculty of Engineering.

"Often when you need cells for transplantations, you need them right away, and it is our hope that this technology will allow much greater access to preserved healthy cells, and that should have an impact in helping to save people's lives," Ross-Rodriguez said.

"Our new relationship with Lifebank is

exciting because it is the final step in seeing our scientific research through from idea to giving patients improved health or even life," Elliott added.

The U of A researchers have presented the results of their work at international conferences. The U of A has patents pending on this technology.

Since creating its technology transfer office in 1994 - now called TEC Edmonton - the University of Alberta has secured more than 300 patents for university inventions, licensed over 200 technologies to external organizations, and created nearly 70 spin-off companies.

Lifebank is the only umbilical cord blood stem cell bank in Canada to be accredited by the American Association of Blood Banks. ■

THE MAN WHO SAW THE FUTURE

PRESIDENT ROD FRASER'S VISION FOR THE UNIVERSITY OF ALBERTA WAS BOLD. A DECADE LATER, THE INSTITUTION HAS BEEN DRAMATICALLY ALTERED.

Ask former University of Alberta chancellor and board chair John Ferguson what his greatest contribution to the university has been and he'll tell you straight out: hiring Rod Fraser as its president.

As board chair and head of the presidential search committee, Ferguson flew to Toronto to meet with Fraser, who was at the time dean of Arts and Sciences at Queen's University. At first, Ferguson recalls, Fraser seemed like just another candidate. Nothing in his background jumped out, save for the fact that Fraser was an alumnus and a native Albertan. But as their conversation continued, Ferguson began to see Fraser's personality, drive and vision unfold.

"I began to realize that he had a lot more depth and vision than a lot of the other candidates put together," Ferguson said. "He expressed a vision that within the next 10 years there would only be a handful of outstanding universities in the country, and the U of A had the potential to be one of them. That excited me – the idea that we could continue on with a status-quo type of a president or we could go with this visionary person which is, in hindsight, my finest legacy to the university."

"He got onto his vision and I kept asking him questions about the ways he'd go about doing things and he gave some very thoughtful answers."

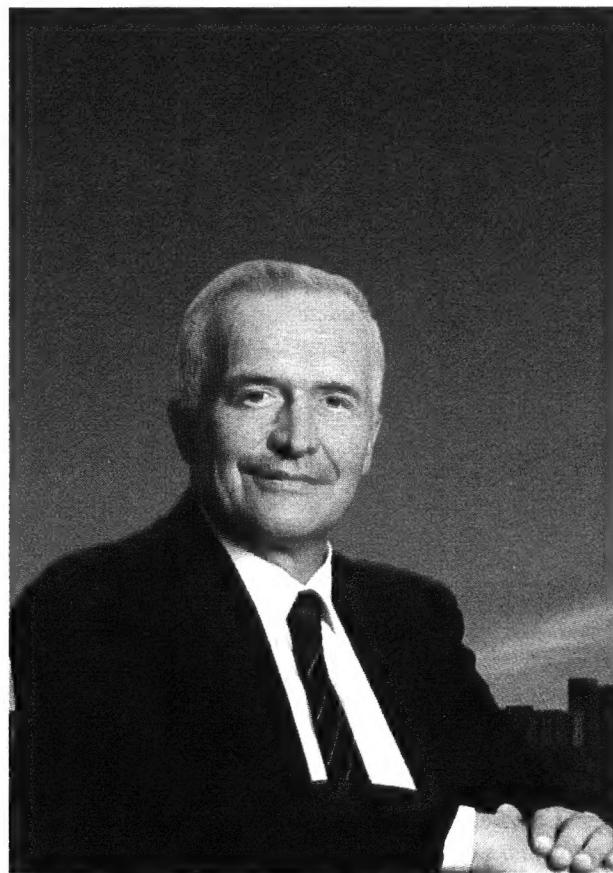
And as far as Ferguson is concerned, Fraser has pretty much achieved everything he set out to. Deputy Prime Minister Anne McLellan feels the same way. Fraser, she says, was part of an influential group of university presidents who convinced former prime minister Jean Chrétien and then-finance minister Paul Martin to reinvest in federal research funding after years of cuts.

"He was one of the most articulate proponents," said McLellan, a former U of A law professor. "Rod Fraser came to the U of A at an important and challenging time. The university was ready to shake out in new directions, it was ready to go to the next level, especially in positioning itself in terms of research, positioning itself globally as an important research institute. He came at an important time and he delivered."

He did so in the face of some major obstacles. Just as the federal government had cut spending, the provincial government had instituted enormous cuts to public spending, including the province's universities.

"Morale was maybe at an all-time low," Ferguson said. "We were losing our top academics to the U.S. That was 10 years ago. Things were totally different. And the vision to be indisputably recognized was with him right from the start, from the first interview. Every decision he made and led us to make was to make this not only the best in Canada but in the world, too. And how do you cut costs and make it a better place?"

One idea, which was central to Fraser's plan, was faculty renewal. Fraser saw that across the continent the demographics of university faculty were shifting. The U of



A needed to start hiring younger faculty members aggressively before the market heated up.

"We had to pre-empt the process and hire some of the top young academics and let them mature at the U of A," said Ferguson.

Fraser himself says there were some concerns with the strategy, that in having seasoned researchers retire and replacing them with lesser-known academics, the amount of research funding the university attracted could actually decline. The plan could have backfired, some said.

"As it turns out, it had just the opposite effect," said Fraser. "By bringing on what is now 52 per cent of our faculty, the best and the brightest we could get our hot little hands on, plus the power of those we had before, we've been able to make tremendous gains."

In fact, research funding at the U of A has skyrocketed to more than \$400 million per year from \$85 million.

"We are seeing the reward of that now," said Ferguson. "Today we've got more cranes on campus than virtually any city in North America."

Another reward the university is seeing is a dramatic change in the Alberta government's approach to funding post-secondary education. Universities and colleges across the province have been working together in lobbying the government for increased support and this year's throne speech, budget and Bill 1, the Access to the Future Act,

included nearly \$6 billion in student and institutional aid at the post-secondary level. And while it was a team effort, much of the credit is going to Fraser.

"Budget 2005 has many authors and (Advanced Education Minister) Dave Hancock needs our thanks, but I think Rod pointed the way," said Board of Governors Chair Jim Edwards.

Chancellor Eric Newell agrees: "Rod really was out front. He's been good at dealing with government because he has a broad perspective. He has to be seen as the catalyst at getting us all working together."

Dr. Doug Owram, who was appointed as provost and vice-president (academic) by Fraser, would agree with the assessment. The effective lobbying of the provincial government was one of Fraser's greatest strengths, according to Owram.

"Rod was very effective working with government and on government. I'm not sure they always liked him or his ability to talk relentlessly about the need to reinvest, but he turned around a government that was inherently populist and mistrusting, in a way, of the universities and ivory towers. A lot of credit goes to him for Bill 1," said Owram.

Another strength is Fraser's ability to give the university some focus, a stronger sense of purpose.

"When he came to the university we couldn't decide if we were a provincial institution or an international research institution. We used to have GFC rules that 85 per cent of undergraduate students had to come from Alberta. Rod came in and said we are not just a regional institution, we are national and international, and when people challenged him on that he never backed down. It means you set the broader sights."

And finally, the fact that Fraser enjoys striving for goals that seem unattainable has served the university well.

"Rod was never afraid to try to reach the unreachable and he was never satisfied when we did," said Owram. "If you think of the nanotechnology centre or some of the capital and technological programs going on, when we started the push for some of these things the odds seemed really remote and unreachable, and yet Rod was able to pull it off. There are other projects that didn't make it, ideas that didn't come to pass, but the point is that never slowed him down for a second. We had wins and losses, but overall there were more wins than losses, and you need only look at cranes or Bill 1 to see how much things changed."

Ferguson is, to this day, amazed at Fraser's drive, and likewise credits the U of A president for the provincial government's turn-around.

"Oh, the tenacity," said Ferguson. "Without Rod Fraser, I know that money would not be there. The post-secondary institutions of this province should be thankful to him. People jumped on his bandwagon." ●

THE SKY IS BLUE! THE SKY IS BLUE!

Some things bear repeating

If you've spent much time at all on the University of Alberta campus, you've heard it time and time again: President Rod Fraser steps to the podium, smiles warmly and says "Welcome to this big, beautiful, blue Alberta sky day." Even at important funding announcements when it's decidedly overcast in Edmonton – foggy even – Fraser delivers the line with all sincerity.

These words, along with the ambitious descriptor 'indisputably recognized,' have become engrained in the minds of those who know Fraser and the university – proof that an important message is worth repeating.

"Rod, I think, understands the power of the cliché and the irony in the cliché like 'indisputably recognized' and 'the big blue Alberta sky day,'" said Dr. Doug Owram, who served as provost and vice-president (academic) with Fraser for the better part of a decade. "But he knows it has become his trademark and it's something that people talk about."

They roll their eyes and say, 'oh no here it comes again,' but they know what he is saying and he knows that people think it's a cliché and he sort of turns it around on us."

Oryssia Lennie, deputy minister for Western Economic Diversification and a former member of the U of A Board of Governors, says the turns-of-phrase have become trademarks for both Fraser and the university.

"I remember in the early days he kept talking about being 'indisputably recognized,' and he is to this day committed to that," she said. "And I've heard him make a lot of speeches and he's opened a lot of them with reference to this 'big, bright, blue, clear Alberta sky' and what I have come to understand is that it was symbolic for him, that the 'big, bright, blue, clear Alberta sky' is a metaphor for the unbridled opportunity that is out there."

"For me, 'indisputably recognized' and 'the 'big, bright, blue, clear Alberta sky' have become words that

absolutely describe Rod Fraser."

Bunny Ferguson, whose husband John Ferguson served as board chair and chancellor, has become great friends with Fraser and his wife, Judith. She is so enamoured with Fraser's use of the blue-sky metaphor that, as a retirement gift, she bought him an umbrella with a sky-blue underlining. Even in the rain, the sky will appear blue over Fraser's head.

Fraser himself says the image of the blue sky is something that has stuck with him since his childhood, growing up on a homestead farm near Ranfurly, and in the small town of Provost.

"When you see the big, blue, clear Alberta sky, it's an uplift," he said. "For me, at some stage it came to represent the unbridled opportunity that we have to achieve things that other people might say we can't achieve . . . I am energized by it." ●

IT'S GREAT TO BE ALBERTA BOUND

Great ideas sometimes take on lives of their own

It's interesting that Dr. Rod Fraser's installation speech was entitled *Alberta Bound*. His family's roots are in Alberta and he grew up here. He met his wife, Judith, while they were students at the University of Alberta. But taking on the presidency meant returning to his home and reacquainting himself with the landscape.

It wasn't long before Fraser seized the opportunity to hit Alberta's back roads.

"As a CEO, I was blown away by the fact that he did that," said Newell. "And all 140 members of the chamber felt the same way."

- Eric Newell

University Chancellor Eric Newell, who was at the time CEO of Syncrude Canada, had received a copy of Fraser's installation speech in the mail and read it closely. Fraser's observations on Alberta's economy made Newell curious. He wondered if Fraser felt that the new, knowledge-based economy would emerge, in large part, from the resource sector.

Then three timely events occurred: first, Newell called Fraser to discuss the Alberta economy; days later the two were invited to Ottawa to consult on the upcoming federal budget with Deputy Prime Minister Anne McLellan; and finally Don Currie, then head of the Alberta Chamber of Resource Industries, sat next to Fraser at a university dinner.

In both their meetings, Newell and Fraser discussed the economy and the province's reliance on resources, and ways the new economy would grow from that. When Currie and Fraser met, they discussed Alberta's resource industries.

"I talked to Don about my interest, about learning about what the drivers of the economy were and he said 'Rod, if you're interested, I'll arrange it,'" Fraser recalled. "All these things happened within seven days of each other."

"I said to him 'If you want the passenger seat of a rental car for two weeks this summer, to visit all the funda-

mental revenue producers in the industry throughout the province, you can have the seat,'" said Currie. "Never in 100 years did I expect the president of a university to take up an offer like that."

"But he did and, for the next six years, he and I spent two weeks rambling round the province going to places like Slave Lake and Cadomin, not the glass towers of corporate head office, but where the actual wealth production was going on by people who worked for a living. We had one hell of a lot of fun, y' know."

The fact that Fraser made that first trip floored Newell.

"As a CEO, I was blown away by the fact that he did that," said Newell. "And all 140 members of the chamber felt the same way."

Currie says he learned a lot about Fraser's character and work ethic on those trips. One day, he recalls, the two drove into the town of Provost, where Fraser once lived. Things had changed, so Currie suggested that Fraser speak with one of the town's residents. Fraser stepped out of the truck and struck up a conversation with a woman on the street, Currie recalls.

"He came back 20 minutes later and he had got the whole history of the town since he'd left," Currie said.

On another occasion, Currie and Fraser rushed back into Edmonton with just minutes to spare — Fraser was scheduled to deliver a talk to a group of poultry producers on campus.

"He had work boots on and jeans and a T-shirt and I said, 'Do you want to go home and change and put the suit on for these people?' And he says, 'No — if they wanted a suit I could have sent one in on a hanger.'"

Fraser recalls those trips with Currie, and to Syncrude to visit with Newell, as "critical."

"It was absolutely fundamental for me . . . to get that understanding of what are those things that are challenging Alberta's economic engine," Fraser said. "Eric Newell

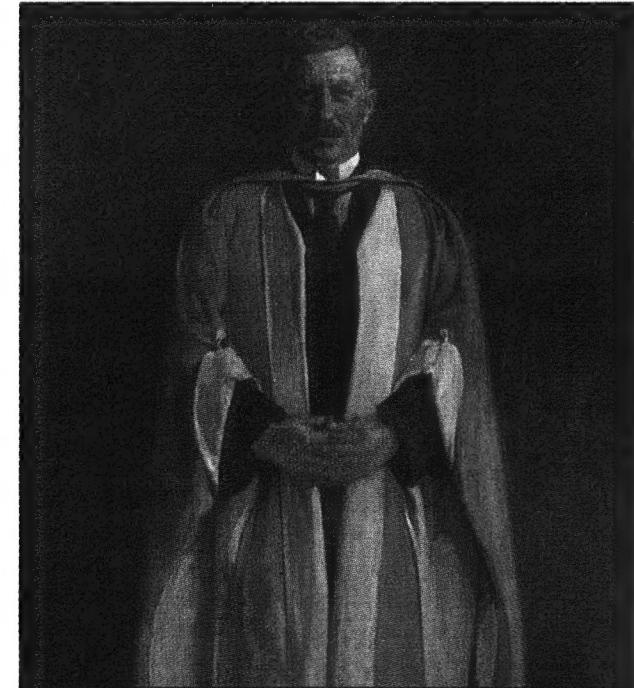
"It doesn't matter who you are, if you could spend 12 weeks with me in a rental car," he jokes, "you have to have a constitution that would choke a horse." — Don Currie ●

had me sitting in the control room of one of these huge, humongous, awesome shovels and there is a computer screen telling the operator how much tonnage was in the last bucket that came up and what that meant in terms of productivity against the business plan for that shovel..."

"That really reinforced this firm knowledge that high tech — the new economy — just penetrates into the heart of our resource-based industries. It was, for me, a tremendous learning experience."

Newell describes the tours as "a tremendous reaching out by the university to the community," and says Fraser also helped build a bridge between the university and Syncrude. Fraser opened the doors that brought university-level courses to the Fort McMurray oil sands plant.

Currie adds that the trips revealed something of Fraser's character, too. "It doesn't matter who you are, if you could spend 12 weeks with me in a rental car," he jokes, "you have to have a constitution that would choke a horse."



"He feels — and there is no ego in this — he feels that he is carrying the mantle of Henry Marshall Tory and he'd better do a good job of it. It is a burden and a privilege," says Board of Governors Chair Jim Edwards.

"The vision of Tory appeals to Rod because he was setting up a pretty ambitious vision for a university and never backed down," says former provost and vice-president (academic) Dr. Doug Owram. "Being at the edge of your reach is an appealing thing for Rod."

He also knows that you need to build a sense of tradition and I think the historical references Rod has made were deliberate, as were early attempts to revive the cheer song, which had been dormant. You need sense of tradition and the university has some age and accomplishments and we should celebrate those."

Fraser admits to feeling "a tremendous affinity" for Tory and the goals he set out in 1905. "If you were founding a university today, you would talk about the same things: a university that would serve its communities, local to international, so that each young person could develop to the fullest possible extent," said Fraser.

PORTRAIT OF HENRY MARSHALL TORY, FREDERICK H. VARLEY, 1923, OIL ON CANVAS, UNIVERSITY OF ALBERTA ART AND ARTIFACT COLLECTION, MUSEUMS AND COLLECTIONS SERVICES



"People don't see how committed he is and the love he has for his wife and family," says former chancellor and board chair John Ferguson, when asked what people should know about Rod Fraser but don't. "Rod shares with Judith the issues he has to deal with. She would be his closest advisor."

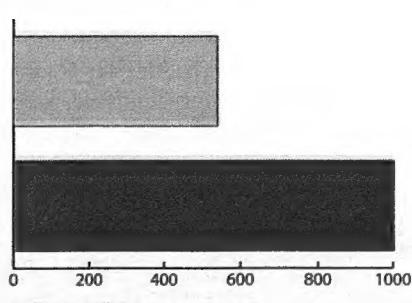
"He is pretty committed to family," adds Dr. Doug Owram, who worked with Fraser as provost and vice president (academic) for 10 years. "The way he talks about their grandchildren or his wife, there is a whole other side of Rod Fraser we have only seen bits of. He is a private guy."

The Frasers met while walking on the diagonal path that led from Rutherford Library to the old university cafeteria nearly 43 years ago — a tree is being planted on the spot during a garden party celebrating Fraser's presidency, May 27.

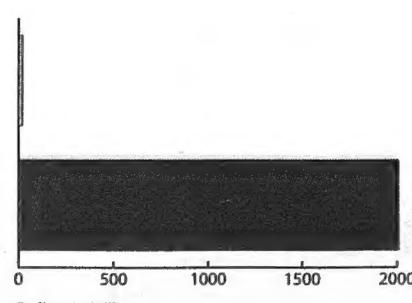
"She has absolutely been the most important person in my life," says Fraser. "She is always able to make sure I am someone who keeps his feet firmly planted on the ground."

UNDER DR. FRASER'S LEADERSHIP...

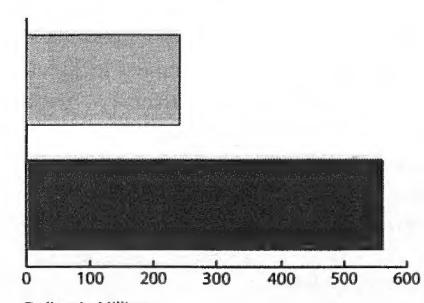
The Annual Budget Increased to \$1 Billion from \$540M



University Assets Grew to \$2 Billion from \$900,000



U of A Endowments Increased to \$560M from \$242M



GETTING TO KNOW US

The U of A's international profile is a growing concern

A couple of months ago Prime Minister Paul Martin visited the University of Alberta campus, meeting with professors and researchers holding cross-appointments with the National Research Council's National Institute of Nanotechnology. In that meeting Martin noted that the U of A-based facility makes Canada and the university world leaders in nanoscience. But he wondered how the U of A and the nation would stand in relation to emerging global powers like China and India 25 years from now.

Time will only tell, but indications are that the U of A's relationship with China will stand it in good stead.

"The University of Alberta has by far the most comprehensive, deeply rooted programs in China of any university in North America," President Rod Fraser states. From Faculty of Education's English language programs which now reach a dozen Chinese provinces, to partnerships in animal health and research built through the Faculty of Agriculture, Forestry, and Home Economics and to professional development programs the School of Business provides for the Chinese government's highest-ranking bureaucrats and university administrators, the U of A has indeed made significant inroads in China, and around the world.

"One of the first themes from the time he arrived here was this map of the world that had the Pacific Ocean in the middle of it, not the Atlantic, and that was the future."

- Dr. Doug Owram

The numbers tell a very interesting story about the U of A and its place in the world: in the past decade, it has inked 240 international agreements in 46 countries. That's part of a plan Fraser felt was essential in making the U of A one of the best universities in the world.

"He has positioned us to be the prime university in relationships with China," said former chancellor and board of governors chair John Ferguson.

And in the days when those initial forays to China were being made, Fraser was criticized, in part, for dealing with a nation that had a poor human rights record.

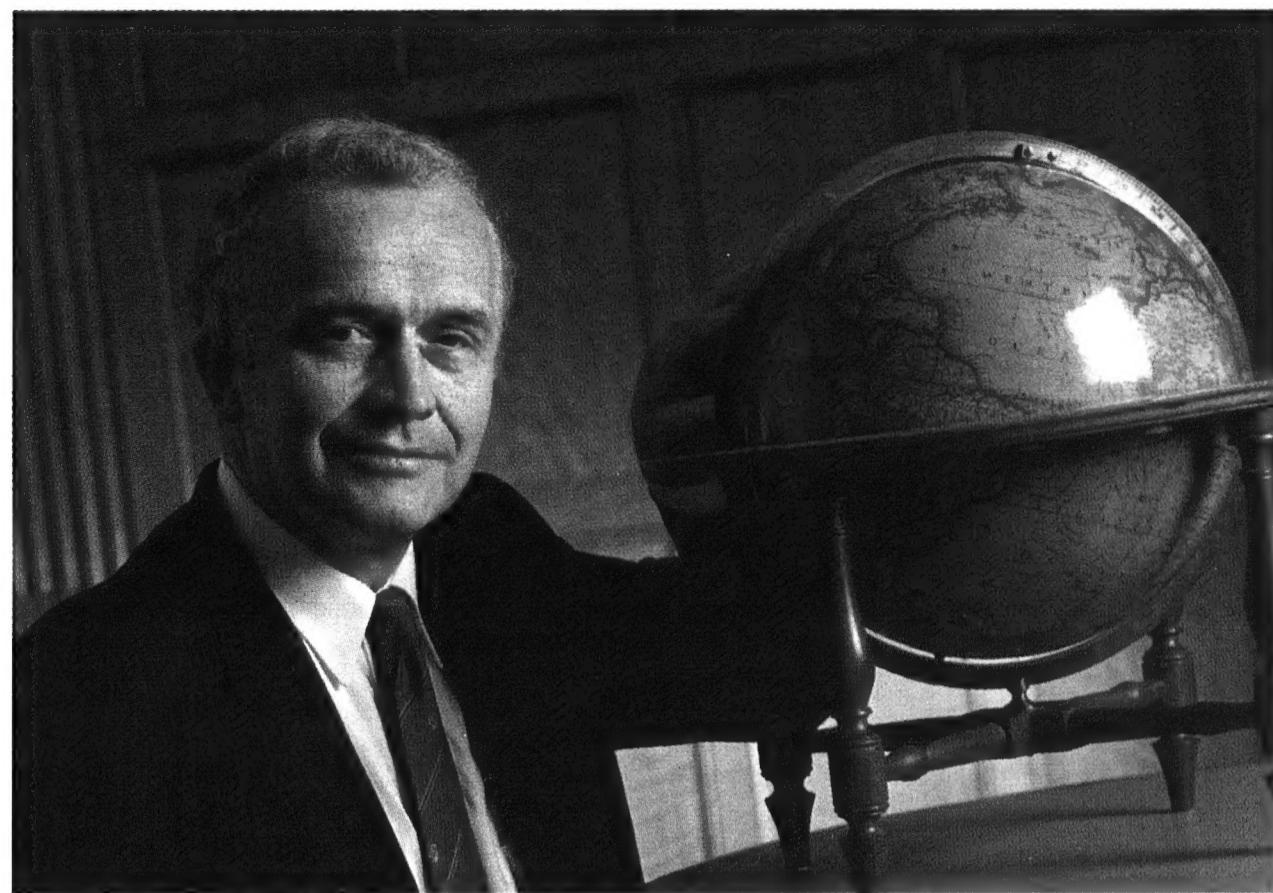
"A lot of people thought it was crazy – a waste of time and money," said Ferguson. "But as China changes today, people are looking at that and saying, 'Oh boy – wasn't that a good idea!' It goes back to Rod having that vision. He could see where China was going at a time when most others couldn't."

Dr. Doug Owram, a historian and former provost and vice-president (academic) at the U of A, says Fraser knew the politically correct route would have been to mouth platitudes about dealing with nations that treat their citizens the way democracies do, but he knew it was important to work with the country rather than speak out against it.

"That was something Rod understood all along," said Owram. "But he also understood that this was where the future lay. Rod understood the potential."

"Internationalism just hadn't been a theme of the university's until Rod came here," he added. "One of the first themes from the time he arrived here was this map of the world that had the Pacific Ocean in the middle of it, not the Atlantic, and that was the future."

"It is an example of how broadly Rod Fraser thinks," said U of A Chancellor and former board chair Eric Newell.



The U of A has built strong ties with other post-secondary institutions, governments and corporations in Japan, Mexico and across Europe, as well. And the number of international students on campus has also increased.

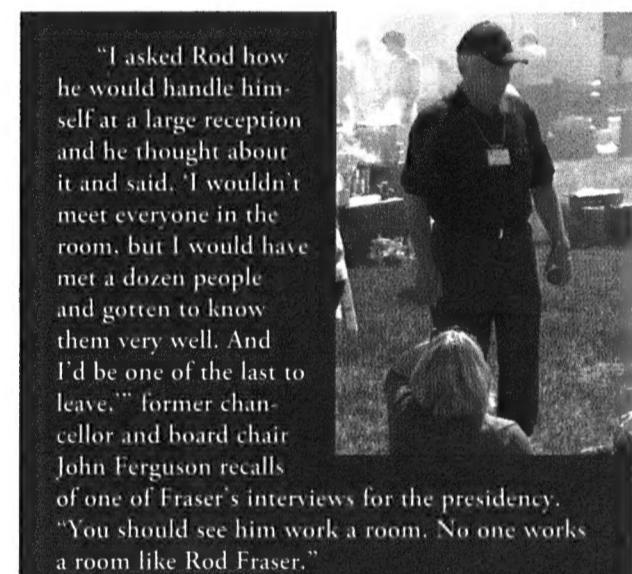
"He made the university a more outward-looking, global place," said Deputy Prime Minister Anne McLellan. "He has helped attract foreign students, and then you send them out as goodwill ambassadors who have a close tie to Canada and the U of A."

Oryssia Lennie, a former member of the U of A board of governors who now serves as deputy minister of Western Economic Diversification, said the importance of forging international ties cannot be understated.

"The U of A's efforts internationally are becoming increasingly well known, with relationships with Japan, China, Korea, Mexico, central Europe and the U.S. – this is so important to Canada's identity and reputation in the world, in our country being a greater player on the world stage," she said. "And the international students who ultimately go back have a connection to this country they might not otherwise have had, and it sets up the potential for future partnerships."

"It's about engagement," Fraser said. "It's about people engaging with other people." ●

"The U of A's efforts internationally are becoming increasingly well known, with relationships with Japan, China, Korea, Mexico, central Europe and the U.S. – this is so important to Canada's identity and reputation in the world, in our country being a greater player on the world stage." - Oryssia Lennie

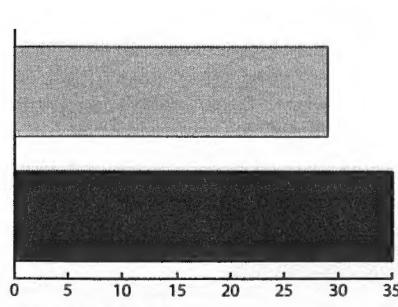


"I asked Rod how he would handle himself at a large reception and he thought about it and said, 'I wouldn't meet everyone in the room, but I would have met a dozen people and gotten to know them very well. And I'd be one of the last to leave,'" former chancellor and board chair John Ferguson recalls of one of Fraser's interviews for the presidency. "You should see him work a room. No one works a room like Rod Fraser."

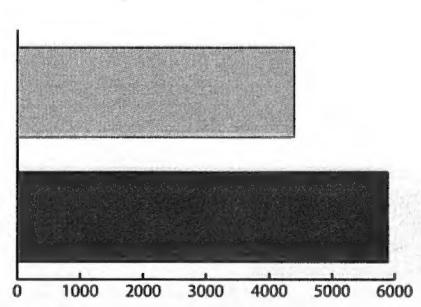
"He has virtually a photographic memory for the content of what might otherwise be a chance encounter," adds board chair Jim Edwards. Fraser met Edwards' daughter and son-in-law at a retirement party for Edwards. "The next day they said, 'I think he knows more about us now than you do.' And it was just an informal chat and he showed a genuine interest in what they were doing."

"I don't know if it's photographic," Fraser said of the word often used to describe his sharp memory. "But it has served me well."

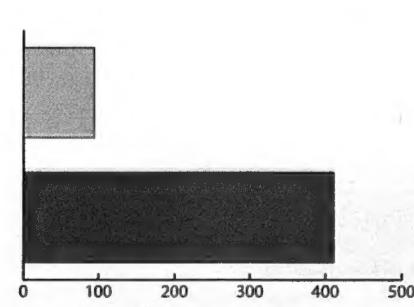
Student Enrolment Increased to 35,000 from 29,000



Grad Student Enrolment Increased to 5,880 from 4,388



Research Funding Increased to > \$410M from \$94M



SURVIVING FINANCIAL STORMS

Fundraising is an essential art

There are two views you can take on university fundraising: you're for it, or against it. Either way, universities have got to live with it.

Coming into his position as president of the University of Alberta at a time when the provincial government had instituted 21-per-cent cuts to core funding, Dr. Rod Fraser knew that new revenue sources would have to be found. Thus, the university launched its first-ever fund-raising campaign, topping its ambitious \$144-million goal by raising an impressive \$194 million.

Perhaps it was stealth, or team-building, that helped.

Kathy Roozen, a university alumna and director of the Allard Foundation, which had made contributions to the Faculty of Medicine and Dentistry and the School of Business, had no idea why the new U of A president was coming to visit, but she suspected it might have to do with donating to the university.

But Fraser and Martha Piper, then the university's vice-president (research) had bigger plans for Roozen.

"They were full of energy and you could tell they had some great plans for the university," Roozen recalls. Then they revealed the purpose of the visit: they asked Roozen if she'd co-chair the university's first fundraising campaign, with former deputy prime minister Don Mazankowski and Petro Canada board chair Brian MacNeil.

"I was completely blindsided," Roozen said. "Three or four weeks later he quietly called back to ask if I'd made a decision and I just felt I couldn't say no to him. And that was just after an hour-long visit. I was thinking the campaign would be for maybe \$50 million but Rod always aims high."

"It was the first university-wide campaign and it was an interesting experience because, in the past, we'd had prior presidents saying the university shouldn't be in the business of raising money, that it should be in the business of teaching," she said.

"But times do change dramatically and universities need not only to be efficient but to also be cognizant of the fact that governments aren't going to fund endlessly. Rod saw that."

With the university's second public campaign underway – the ambitious, \$310-million Campaign 2008 – Fraser is still at it.

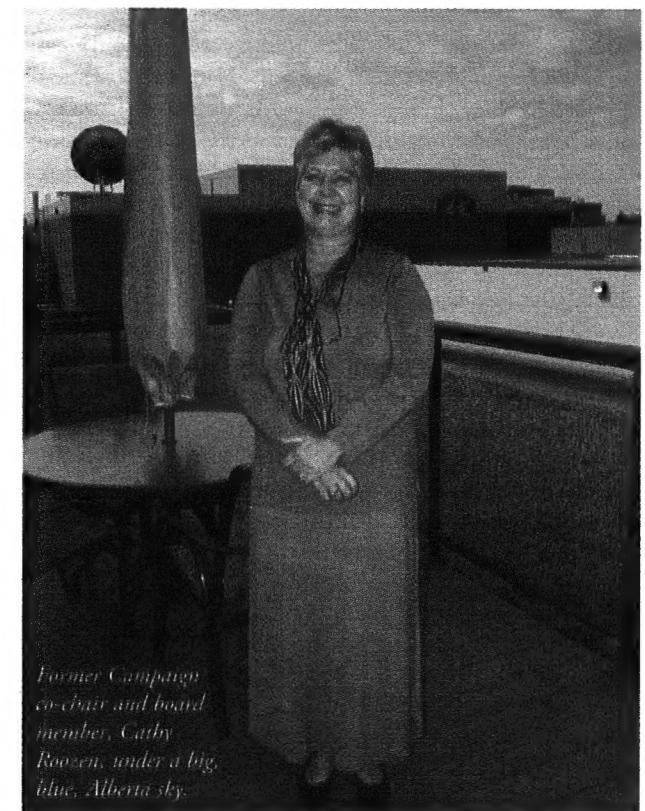
"I saw him in Toronto a few weeks ago in a hotel and he had been out fundraising," said former chancellor and board of governors chair John Ferguson. "The pace the man works at! And he's still doing it, right to the end."

"In a world in which government funding is drying up, you are in a situation in which one of the two or three most important things you do as a president is try to build a resource flow," Fraser explained.

"I love to talk to all the people who come to the annual President's Barbecue in August. I just love to talk, and people come and ask me, 'Oh, gee, I really like this. Why don't you do more of it?' And I say, just straight up, the problem I have is that we can't get the financial support the university requires if I'm spending all my time meeting with groups and attending all kinds of get-togethers. It is a tough, tough situation but if you look at what has happened there is evidence to say we had to do that, we will have to do that, that it will become part of everything a university that is going to compete successfully in the world needs to do."

"Henry Marshall Tory always said he only had three jobs to do: one was to recruit and retain outstanding students with outstanding potential, and to recruit and retain outstanding faculty and staff and, thirdly, to find the resources such that they can develop to their own potential. I think that the third one takes on a greater and greater pre-eminence in a president's set of priorities."

Roozen understands that perfectly, and appreciates it. Fraser's fundraising efforts, she said, have made the uni-



Former Campaign co-chair and board member, Kathy Roozen, under a big, blue Alberta sky.

versity a better place.

"He was an 'external' president and that's what we needed. He ensured the university's profile was out in the public's face, not only across the country but also in our own community."

"So many great stories have come out of the university in the past 10 years and I credit that in part to Rod and the team of people he has built around him," she said. ●

BACK TO THE FUTURE

Ten years later, Rod Fraser looks to his own future

The TV camera is rolling and mid-way through an hour-long interview about the complexities of running a world-class university, a simple question has University of Alberta President Dr. Rod Fraser stuck for words.

"Geez. Turn off the machine. That is a tough question," he says. "That really is a tough question."

The question – 'what will you miss most after you retire?' – is challenging because during Fraser's decade as president, the university has been utterly transformed. More than half of its faculty has been hired during his tenure, research funding has increased to more than \$410 million annually from \$94 million, student enrolment has grown to 35,000 students from 29,000; the university has signed 240 international agreements in 46 countries and has raised \$450 million in donations.

In short, the man's been busy. But it's what he vowed to do. When he applied for the job as president of the U of A, Fraser, an economist who specialized in public health care and non-profit organizations, had theorized that Canada's universities were on the brink of massive change and that there would be room for a very few to rise to the top in teaching and research. He knew the U of A had the potential to be one of those institutions.

Even before he applied for the job, Fraser began collecting statistics about the U of A and its peers, formulating ideas about ways the U of A could rise to the top. Calling the presidency of the U of A "the greatest

privilege that I have ever been given," Fraser laid forth his vision for the U of A in his installation speech: "I believe there will be a major sorting out of universities," he said. "Only a handful will emerge from the fray as strong, full-service, research-intensive universities. It is my vision that the University of Alberta will be one of those. It will be viewed universally and indisputably as one of Canada's best universities."

The U of A, he said, would prepare its students for life after graduation, would have as its professoriate "national and international leaders," and would make service to its communities a priority. It would, first and foremost, have a "relentless focus on quality," which would attract and retain "the very best minds," it would continually monitor and assess its performance, align its activities to the nature of intellectual and practical problems facing society, build a responsive management system, be selective in the way it allocated its resources, and it would be harmonious.

"I haven't seen my installation speech in about 10 and a half years," Fraser said, more recently. "I did set out what I thought was a bold vision but importantly, for me, I asked the people that were there listening, I called them to action in support of that bold vision. And people have responded to that call to action."

Saying the exercise seems "egotistical," Fraser reluctantly cited his top three achievements: instituting a faculty renewal program that has seen 830 new faculty members hired in nearly 10 years, enhancing the international

flavour of the campus, and building strong connections with internal and external communities.

"It goes back to the fundamental promise of our first president, Henry Marshall Tory, who said the university would serve the people, would serve our communities, local to international."

And now, he's stepping down, with mixed emotions.

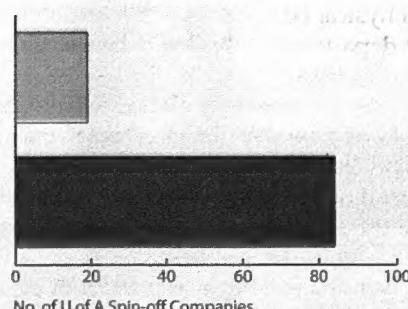
"But Judith and I will, for the first time in a long time, be able to spend more than the month of July at our cottage . . . that's a really good start."

But back to the question: what will he miss the most after he steps down June 30? After pondering the query, Fraser realizes what he will miss most is the pursuit of excellence. He had recently met the woman he shared valedictorian duties with when they graduated from Central Collegiate Institute in Calgary in 1958, and was reminded of the speech he gave then.

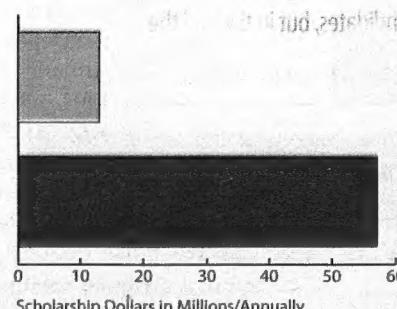
"There was something that was part of me that got into that speech, which was this statement that the challenge for us is to set seemingly unattainable goals and then to strive towards the pursuit of these goals," he said. "So I think at this stage this shy, retiring guy will not retire but likely will try to search for that walk of life where, in a similar way, I can be involved in setting out what is a tough objective to even conceive of even going after . . . that is going to be the biggest challenge I have, finding that walk of life where that kind of input I can have will be useful." ●

UNDER DR. FRASER'S LEADERSHIP...

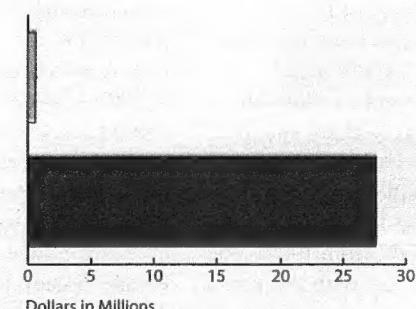
U of A Spin-off Companies Increased to 84 from 19



Student Scholarships Increased to \$57M from \$13M Annually



Royalties & Licensing Fees Increased to \$27.6M from \$0.6M



Alumni honoured in Sports Wall of Fame ceremonies

U of A Olympians, sports administrators recognized for their contributions to sport

By Scott Lingley

Olympians Megan Delehanty and Ian Newhouse, and sports administrators George Hughes and Irwin Strifler have added their names to the list of distinguished University of Alberta alumni who have made significant contributions to varsity, community, national and international sport.

"The honours and accolades bestowed upon us are in one sense humbling, and yet create an enormous sense of pride," Strifler said on behalf of his fellow inductees at the 20th annual Sports Wall of Fame dinner at the Shaw Conference Centre on May 12.

"We are becoming part of history for playing the sport we love. We thank the University of Alberta for providing the competitive experience, as well as the greatest gift of all, the inspiration and the ability to learn."

Megan Delehanty was honoured for her achievements in competitive rowing, which she became involved in as a student at the U of A, (she completed her B.Sc. in 1990). After continuing her successes as a rower at the University of British Columbia, Delehanty won a spot on the Canadian National Rowing Team, which earned gold medals in the world's most prestigious regattas, including the 1992 Olympic Games in Barcelona. Recently Delehanty completed her PhD at the University of Pittsburgh.

George Hughes, who joined the U of A Golden Bears hockey program in 1945 as equipment team manager, has earned many accolades for his hand in building sports programs and facilities in the city and the province. As chief commissioner of public affairs for the city of Edmonton, he oversaw the development of eight community arenas, as well as the Northlands Coliseum, now named Rexall Place. He is a member of Edmonton's Sports Hall of Fame, Hockey Alberta's Hall of Fame, and a winner of the U of A Distinguished Professional Lifetime Achievement Award.

Dr. Ian Newhouse established university, national and world records during his career as a member of the Golden Bears track and field team from 1978 - 1982. He also won the prestigious Dr. Fred Tees Memorial Trophy as the most outstanding track and field athlete at a Canadian university, as well as completing his bachelor's degree in physical education and his M.Sc. In addition to participating in the 1980 and 1984 Olympic Games as a member of the Canadian National Team, Newhouse set records at numerous national and international sporting events. More recently, Newhouse won the gold



Dr. Rod Fraser and award-winner Irwin Strifler at the 20th annual Sports Wall of Fame dinner.

and silver medals for the 800m and 400m sprints respectively in the 40-45 year age group at the 1997 US Masters Games. As a member of faculty at Lakehead University, Newhouse founded their cross-country/track and field program and served as head coach until 1999.

Following a brief but successful career in American college football and a stint with the Calgary Stampeders of the Canadian Football League, former Golden Bear Irwin Strifler opted for a career as a teacher coach, and administrator, assuming the role of director of athletics for the Northern Alberta Institute of Technology (NAIT) in 1968. Over the next 30 years, Strifler was the architect of one of Canada's most respected college athletic and intramural programs, in which teams and indi-

vidual athletes from NAIT won 157 Alberta Colleges Athletics Conference (ACAC) gold medals, 12 Canadian Colleges Athletic Association (CCAA) national team championships and 17 individual gold medals. Strifler also served in various administrative capacities with the ACAC and the CCAA, as well as coaching minor league hockey and volunteering at the 1978 Commonwealth Games and the 1983 Universiade Games. He retired from NAIT in 1998 and was named to their Wall of Fame in 2003.

Strifler cited the role of varsity athletics and the U of A in preparing this year's inductees for the careers they enjoyed.

"We learned the true meaning of loyalty and sacrifice," Strifler said. "We also learned that perfection is unattainable, but

"The honours and accolades bestowed upon us are in one sense humbling, and yet create an enormous sense of pride,"

— Irwin Strifler

excellence is possible; that lessons learned in athletics will be remembered long after scores are forgotten; and don't make today's losses the enemy of tomorrow's victories; and one that Ian Newhouse liked: 'You are your own best coach - put your own destiny in your own hands.'

With the addition of this year's inductees, the Sports Wall of Fame now includes 99 U of A alumni who have made outstanding contributions in the field of athletics and to their communities. ■

Schulha named director of Athletics

Development strengths add new dimension to post

By Bob Stauffer

Though it's been more than a decade since he headed up the University of Alberta's athletics department, Dale Schulha has maintained close ties to varsity sports at the U of A personally and professionally. He'll be able to continue his commitment as the university's newly appointed director of athletics.

"Since I left as chairman of athletics, I have been a close observer of U of A Athletics and CIS sport and have watched two of my sons play on varsity teams - Ryan in football and Aaron in volleyball. I recognize the challenges that are ahead and I look forward to working with the faculty, the coaches and the support staff," said Schulha, who played five years for the Golden Bears football team from 1968 to 1972, and won a Vanier Cup with the Bears in 1972.

From July 1995 to June 2003 Schulha served as the director of development and alumni affairs for the Faculty of Physical Education and Recreation.

In July of 2003 Dale moved to an associate vice-president (advancement) role at the University of Lethbridge, but returned to the U of A in February of 2004 when he was named associate director of development for the Office of External Relations, a post that he has held since.

Schulha was also the director of university liaison for the Edmonton 2001 World Championships in Athletics, and

had previously been involved with the 1991 Winter World University Games in Japan, 1987 Winter World University

Games in the Czech Republic, and 1983 Summer World University Games in Edmonton.

During his tenure as chairman of the Department of Athletics from 1989 to 1993, Schulha steered athletics through a severe funding crunch due to provincial cut-

backs, and also hired three full-time head coaches - Trix Baker (women's basketball), Laurie Eisler (women's volleyball) and Terry Danyluk (men's volleyball) - who

would go on to guide their teams to National Championships.

Prior to being named the chairman of the Department of Athletics at the U of A, Dale oversaw marketing and communications roles for athletics, as well as serving in administrative positions in Calgary and Medicine Hat.

Dr. Mike Mahon, dean of the Faculty of Physical Education and Recreation, said the department is thrilled to be welcoming Schulha back.

"We are extremely excited to have Dale lead our team. We did an exhaustive search and evaluated over 160 applicants with several outstanding candidates, but in the end the right person for the job was in our own backyard," said Mahon.

Schulha will begin as director of athletics on May 15, 2005. ■

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U of A Press wins Publisher of the Year

Campus press snags multiple prizes at the Alberta Book Awards

By Caitlin Crawshaw

Tucked away in the northwest corner of campus, the University of Alberta Press (UAP) may seem a quiet presence, but the publishing house has been anything but inconspicuous on the Canadian publishing scene.

"It's very nice to win it at this time, because last year was the centennial of the City of Edmonton, and we published two books that were very important in that celebration," said Linda Cameron, director of the UAP.

"It's very nice to win it at this time, because last year was the centennial of the City of Edmonton, and we published two books that were very important in that celebration," said Linda Cameron, director of the UAP.

Edmonton in Our Own Words by Linda Goyette and Carolina Jakeway Roemmich is Edmonton's official centennial book, which sold out in hardcover and was recently reprinted in paperback, said Cameron. In 2004, the UAP also published Naming Edmonton, which explores the names and histories of Edmonton's places.

In addition to snagging the Publisher of the Year Award, the publisher also earned the Trade Non-Fiction Award for Edmonton in Our Own Words, as well as an award for best overall book design for Damselflies of Alberta: Flying Neon Toothpicks in the Grass by John Acorn, with illustrations by Alan Brownoff.

While content is critical, Cameron explained that book design plays a key role in attracting readers and, because of this, acknowledgment of design success is important.

"I think a long time ago people thought that with academic books especially, you didn't have to pay much attention [to]



Director Linda Cameron of the University of Alberta Press.

design] because it was the content that was important," she said. "But in this day and age, you have to attract people in every way that you can, and good design is important. People are very sensitive esthetically to things that look nice."

She added that the UAP's books are written for a broad audience, and not solely for academics.

"That's one of the things that we take a lot of pride in, is the fact that many of our books are very accessible to educated readers who just want to know more about various kinds of things - whether it's building sustainable peace or the history of a newspaper in Alberta, as Paul Voisey talks about in High River and the Times," Cameron said.

In addition to the Alberta Book Awards, the UAP won nine other awards in 2004, including the Word Guild Writing Award, the John Glassco Prize, the Association of American University Presses Book Journal & Jacket Competition, the Alcuin Society's Design Award and the Asia Pacific Award of Canada. ■

NSERC funding

continued from pg 1

researchers, and said that the funding he receives will help him continue that tradition of excellence in his lab.

"I have 22 research trainees right now," he said. "I think 84 per cent of my research funding goes toward students."

Beaulieu said the research in his lab is focused on improving the science and technology of wireless communications.

"We're primarily a communications theory group - we work on the theory of wireless, the mathematical solutions and modeling of wireless systems," he said. "Other international researchers have

cited our work a lot. You could say we develop mathematical tools and those tools are used a lot by other international researchers."

NSERC President Dr. Tom Brzustowski said the recent round of funding is an investment in the future of research in Canada.

"Canadian universities are appointing hundreds of new professors to replace those who are retiring. It is also very good for Canada that these new people are not only eager but well qualified to do research," he said. ■

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UNTIL SEP 1 2005

Marginal Notes: an exhibition of bookworks concerning social issues Bruce Peel Special Collections Library, Rutherford South

UNTIL SEPT 16 2005

REWIND: An Exhibition on Windsor Park Community REWIND focuses on Windsor Park, the community to the west of the University. With a focus on material culture from an historical and social perspective, the exhibition explores the neighbourhood's architectural diversity through a highly developed visual element, accompanied by various stories and captions on the life and vibrancy of the community and its members. 11 a.m. - 4 p.m., Human Ecology Gallery, main floor Human Ecology Building 116 St & 89 Ave.

MAY 27 2005

President Rod Fraser's Tree Planting and Farewell Garden Party Please join us in an outdoor celebration to honour President Rod Fraser for 10 years of unwavering commitment to the University of Alberta. The afternoon will consist of a Dixieland band, deluxe sandwiches, luscious desserts, popcorn, and more! Come out and enjoy the big blue Alberta sky with President Fraser! Please RSVP via our website prior to May 20. 11:00 a.m. - 2:00 p.m. Arts/Business Quad.

MAY 27 – MAY 28 2005

2005 Relay for Life A celebration of survival and a tribute to the lives of loved ones who have been touched by cancer. Twelve hours of fun, friendship and fundraising to beat cancer. Communities from coast to coast, taking up the fight. 7:00 p.m. University of Alberta - Foote Field.

MAY 28 2005

Saturday Walk with a Horticulturist (Alpine) Meet at the Shop-In-The-Garden at noon and tour the Alpine Garden and adjoining native plant areas, both in full bloom at this time. Horticulturist Linda Hewlett will guide the tour and provide information for all your questions. Regular admission rates apply. Phone (780) 987-2064 to book your spot and enjoy a spring walk! 12:00 p.m. - 1:00 p.m. 5 KM North of the Town of Devon on Hwy. 60.

MAY 30 2005

2005 NEB Cell Biology Distinguished Speaker Lecture Series Dr. Philip S. Low Professor of Chemistry at Purdue and Co-founder of Endocyte Pharmaceuticals Purdue University. Title: "Receptor-targeted therapies for cancer and inflammatory diseases." 4:00 p.m. - 5:00 p.m. 2-31 Medical Sciences Building.

MAY 31 2005

Preparing your Independent Investigator AHFMR Grant Application This workshop will assist researchers in the preparation of their applications for the Alberta Heritage Foundation for Medical Research (AHFMR) Independent Investigator Awards. It is applicable to both new researchers and researcher seeking to progress in their careers. PRESENTER: Mark Taylor, AHFMR Director of Grants and Awards. Mark will speak about issues to consider when preparing and submitting an Independent Investigator application and point out some of the common mistakes. In cases where an establishment grant is a component of the Alberta Heritage Grant, Mark will include information on preparing and developing this grant application. Feel free to bring your lunch. Please register at the webpage link provided. NOTE: this workshop was moved from June 28 to May 31, and its location has changed from Education to Medical Sciences. 11:30 a.m. - 1:00 p.m. 5-10 Medical Sciences.

JUNE 1 2005

Symposium 2005: What consumers really want? Consumer demand for food continues to be one of the most complex factors affecting agri-business. Research tools of today can provide many clues as to what consumers will purchase in the future and why certain foods are less than popular. This one-day symposium brings together academic, government and industry personnel to hear leading experts discuss current issues in agricultural marketing & business. Room 1-001 Natural Resources and Engineering Facility.

JUNE 3 – JUNE 5 2005

Chigiri-e (9th annual show & demo) Joan King invites you to experience her world of Chigiri-e. Exotic and unique pictures are created using

torn, imported Japanese paper. This is truly an extraordinary art form! On-going demonstrations are in the classroom area (upstairs) of the main building. Regular admission rates apply. Contact Visitor Services for further information. 10:00 a.m. - 5:00 p.m. 5 Km North of the Town of Devon on Hwy. 60.

JUNE 4 2005

Saturday Walk with a Horticulturist (Trees & Shrubs) Meet at the Shop-In-The-Garden at noon and tour the Gardens extensive tree and shrub borders, many of them in full Spring color at this time. Horticulturist Gordon Nielson will guide the tour and provide information for all your questions. Regular Garden admission rates apply. Phone (780) 987-2064 to book your spot and enjoy a spring walk! 12:00 p.m. - 1:00 p.m. 5 km North of the Town of Devon on Hwy. 60.

JUNE 5 2005

Kurimoto Japanese Spring Festival The Consulate General of Japan, in partnership with the Devonian Botanic Garden is pleased to present a unique opportunity to celebrate Japanese culture in its entire splendor. The Spring Festival will feature Japanese cultural demonstrations for the entire family! Be sure to come early to enjoy each of the many activities available (tea ceremonies, Chigiri-E, Bonsai display, Karate and Kendo demonstrations, Koto, Wakaba Kai Dancers) and much, much more! Featured this year, the Taiko Drummers will be opening the festival to provide a grand opening to the festival. Regular admission rates apply. Contact Visitor Services at (780) 987-3054 for further information. 1:00 p.m. - 4:00 p.m. 5 Km North of the Town of Devon on Hwy. 60.

JUNE 7 2005

Convocation Ceremonies Spring Convocation Ceremonies 10:00 a.m. ceremony Faculty of Graduate Studies and Research and School of Native Studies 3:30 p.m. ceremony Faculty of Medicine and Dentistry and School of Business Universiade Pavilion (Butterdome).

7-day/24-hour Blood Pressure and Heart rate profiles interpreted by chronomics reveal risks higher than hypertension - Dr. Germaine Cornelissen 12:00 p.m. - 1:45 p.m. Clinical Sciences Building 2-115.

Applications of Chronobiology to the Timing of Chemotherapy: Dr. Germaine Cornelissen. 4:00 p.m. - 5:45 p.m. Cross Cancer Institute Rm 2279.

JUNE 8 2005

Convocation Ceremonies Spring Convocation Ceremonies 10:00 am ceremony Faculty of Education (Secondary, Adult and Diplomas in Education), and Faculty of Law 3:30 pm ceremony Faculty of Science Universiade Pavilion (Butterdome).

JUNE 9 2005

Budgets, CVs and Attachments: SSHRC Standard Research Grants This informative workshop is for faculty researchers who are seeking guidance on writing or enhancing a Standard SSHRC proposal. Attend to obtain practical tips from members of the Adjudication Committees and grant recipients on how to develop or refine your budgets, CVs and CV attachments. This workshop is the second of two. The first workshop is Preparing your SSHRC Standard Grant Application. Both are open to all faculty researchers. Feel free to bring your lunch. Please register at the link provided <http://sldregistration.ualberta.ca/listCourses.jspt>. 11:30 a.m. - 1:00 p.m. 122 Education Centre.

JUNE 10 2005

Convocation ceremonies Spring Convocation Ceremonies: 10:00 a.m. ceremony Faculties of Engineering and Agriculture, Forestry, and Home Economics; 3:30 p.m. ceremony Faculty of Arts, Universiade Pavilion (Butterdome).

Visiting Speaker Seminar: Medical Grand Rounds Speaker: Dr. Hoby Patrick Hetherington, Director, Magnetic Resonance Research Centre, Albert Einstein College of Medicine, New York, Title: MR Spectroscopic Imaging of Temporal Lobe Epilepsy: The Relationship between Bioenergetics, Histology and Cellular Function" 9:00 a.m. Classroom D, 2J2.14 WMC.

JUNE 14, 2005

Dr. Tapan Basu's Retirement Reception The Department of Agricultural, Food and Nutritional Science will be hosting a reception to honour Dr. Tapan Basu on the occasion of his



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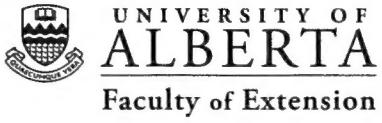
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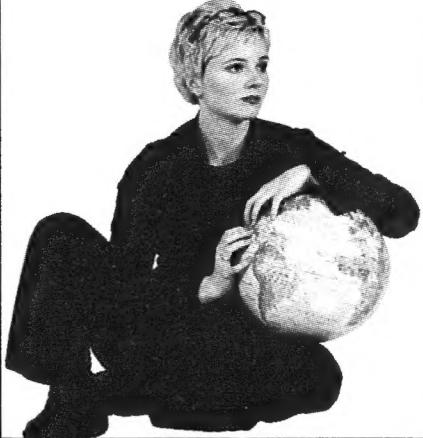
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retirement as Professor, Nutritional Biochemistry. Dr. Basu has been at the University of Alberta since July 1981. Cocktails and cash bar will commence at 4:00 p.m. Presentation will start at 4:45 p.m. Please RSVP by June 3rd to Sharon Katzeff at Sharon.Katzeff@ualberta.ca or Tel: (780) 492-0379. If you wish to donate toward a gift for Tapan Basu, please send the cheque payable to the University of Alberta to Sharon Katzeff at: Department of AFNS, 4-10 Agriculture, Forestry Centre, University of Alberta, Edmonton, Alberta, T6G 2P5. 4:00 p.m. - 7:30 p.m. Papaschase Room, Upper Level, Faculty Club, University of Alberta.

JUNE 17 2005

Summer Health Ethics Symposium 2005
 The John Dossetor Health Ethics Centre invites you to attend a one-day symposium on health ethics. The series of presentations will be interdisciplinary, examining and exploring the essential place of ethics in health care practice. Space is limited. Please check our website for more information. 8:45 a.m. - 4:00 p.m. Stollery Executive Development Centre.

positions

The records arising from this competition will be managed in accordance with provisions of the Alberta Freedom of Information and Protection of Privacy Act (FOIPP). The University of Alberta hires on the basis of merit. We are committed to the principle of equity of employment. We welcome diversity and encourage applications from all qualified women and men, including persons with disabilities, members of visible minorities, and Aboriginal persons. With regard to teaching positions: All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority. For complete U of A job listings visit www.hrs.ualberta.ca.

**ACADEMIC COORDINATOR OF
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 UNIVERSITY OF ALBERTA DEPARTMENT OF
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Applications are invited for the following part-time academic position (.5 FTE) at the University of Alberta, Department of Physical Therapy, commencing August 1, 2005. The successful candidate will work with the current academic coordinator of clinical education over a period of three years. Possibility for a greater time commitment may be available after three years.

As a department in the Faculty of Rehabilitation Medicine, Physical Therapy offers an innovative course-based, graduate entry-level program (MPT) that integrates strong clinical skills and evidence-based practice skills. The department also offers M.Sc. degrees in Physical Therapy and participates fully in an interdisciplinary Ph.D. degree program in Rehabilitation Science. The department currently consists of 14 faculty members.

This assistant professor clinical-track position is responsible for managing the day-to-day operations of the clinical education program. This includes development of placement sites, liaising with clinical supervisors and advising students as required. Candidates must possess a minimum of a B.Sc. (Physical Therapy) and knowledge of clinical education/supervision is an asset. Some teaching at the graduate and undergraduate level will be required. Minimum three-year appointment. Salary will be commensurate with experience.

Qualified applicants should send a curriculum vitae, a statement of clinical education and teaching interests and the names of three (3) referees to:

Dr. A. Cook, Dean
 Faculty of Rehabilitation Medicine
 3-48 Corbett Hall
 University of Alberta
 Edmonton, Alberta, Canada
 T6G 2G4 Phone: 780-492-5991
 e-mail: albert.cook@ualberta.ca

Review of applications will commence on June 15, 2005 and continue until the position is filled. Further information on the positions may be obtained by contacting:

Dr. Jaynie Yang, Acting Chair
 Department of Physical Therapy
 Phone: 780-492-5984
 Email: jayne.yang@ualberta.ca

**SESSIONAL INSTRUCTORS
 AUGUSTANA FACULTY**

The Science Department of Augustana Faculty, University of Alberta, invites applications from sessional instructors to teach courses in one or more of the following courses during the 2005-2006 academic year. These courses are from biology (BIO), chemistry (CHE), computing science (CSC), environmental studies (ENV), geography (GEO), and statistics (STA).

FALL

BIO 274 Microbiology of Prokaryotes: organization, morphology, cell structure (lecture + 3 labs);
 BIO 295 The Vertebrates: structure, function, and diversity (lecture + 3 labs);
 CHE 250 Organic Chemistry I: molecular structure and reactivity (1 lab)

CHE 279 Physical Chemistry: principles and concepts (1 lab)
 CSC 455 Computer Communications Networks: methods and practices (lecture + half lab)
 ENV/GEO 120 Human Activities and the Natural Environment: introduction to environmental science (lecture)
 STA 213 Statistical Methods: applications for BIO, CHE, and ENV (lecture + lab)

WINTER

BIO 130 Cell Biology: structure and function (lecture only)
 BIO 260 Principles of Genetics (lecture + 3 labs)
 BIO 275 Microbiology of Eukaryotes: organization, morphology, cell structure (lecture + 2 labs)
 BIO 338 Developmental Biology (lecture + 2 labs)
 CHE 112 General Chemistry II (2 labs)
 CHE 252 Organic Chemistry II (1 lab, depending on enrolment)
 CSC 330 Database management Systems I: theory and practice (lecture + half lab)
 ENV/GEO 120 Human Activities and the Natural Environment: introduction to environmental science (lecture)
 GEO 218 Introduction to Geographic Information Systems (lecture + lab + course development)

Augustana Faculty offers four-year Bachelor's degrees in several science disciplines. Course descriptions and an overview of the science programs may be viewed at <http://www.augustana.ca/other/calendar/pdf.html>. Candidates should hold a master's degree in a discipline related to the area of interest for teaching.

Augustana Faculty is located in Camrose, Alberta, 90 km southeast of Edmonton. The Faculty has recently incorporated into the University of Alberta. For more information, visit our website at: <http://www.augustana.ca/>.

Augustana is committed to building on its reputation for rigorous, high-quality teaching in the tradition of the liberal arts and sciences, and, in doing so, providing a distinctive undergraduate academic experience for students within one of Canada's leading universities. Augustana encourages applications from individuals who will share that commitment to teaching in a collegial, small-campus setting.

Applications should include: a curriculum vitae; degree transcripts; evidence of recent postsecondary teaching ability; a list of courses of interest; as well as names and full contact information of at least two references. Review will begin May 30. Applications will be reviewed on an on-going process until the positions are filled.

Address applications to:
 Dr. Glen Hvenegaard, Acting Chair
 Science Department
 Augustana Faculty
 University of Alberta
 4901-46 Avenue
 Camrose, Alberta T4V 2R3
 Phone: (780) 679-1574
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HOUSE FOR RENT - three + one br, two bath, south side, direct bus to U of A. Seven appliances, a/c. FOR LEASE - 09/05 - 08/06. NS/NP. \$1100/

mo. \$1100 dd. furniture negotiable. 439-0676, cwestman@ualberta.ca.

MCKERNAN HOUSE - 11260 - 78 Ave. Two bedroom main floor, large windows, hardwood floor, renovated bath, private backyard and deck, washer/dryer, two minute walk from university. \$1100/month includes utilities. Contact Michael at 915-4611 or major@ualberta.net.

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notices

Please send notices attention Folio, 6th floor General Services Building, University of Alberta, T6G 2H1 or e-mail public.affairs@ualberta.ca. Notices should be received by 3 p.m. Thursday one week prior to publication.

MEMORIAL SERVICE FOR LILLIAN VILBORG MACPHERSON

A memorial service for Lillian Vilborg MacPherson will be held 3 p.m. May 29, at the Edmonton Unitarian Church
10804 119 Street, Edmonton
(Easiest access is either north on 116 St and west, or south on 119 St from 111 Ave.)
We were all saddened to hear of Lillian MacPherson's death.

She died April 3 at home in Winnipeg with her family close beside her. Her funeral, which she had planned in detail, was held April 8 in Winnipeg in the Unitarian Church beside the Assinboine River.

In order to give Lillian's many friends who could not attend the service in Winnipeg an opportunity to celebrate her life, a memorial service will be held in Edmonton. Although there will be a few formal tributes, the service will

be collective, with everyone invited to share a memory or a reading.

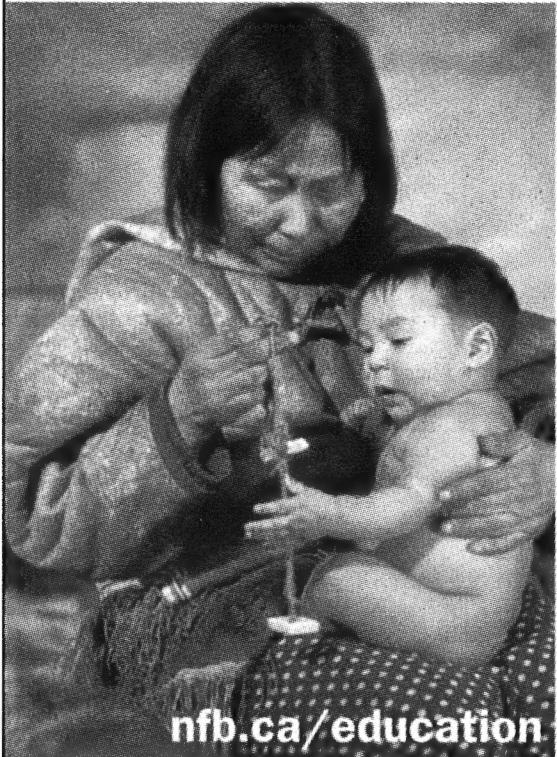
At Lillian's request, in lieu of flowers, donations may be sent to the Helga Dalman Memorial Scholarship fund at the University of Alberta (Student Awards Office, 1-80 Student's Union Building, University of Alberta, Edmonton, AB, T6G 2J7). Tax receipts will be provided. This is a scholarship Lillian established some years ago in her

grandmother's name. Lillian's name will be added to the scholarship as well.

If you are attending from Edmonton, it would be appreciated if you could bring a plate of nibbles of any description for the reception following the service.

For more information, please contact:
Holly Turner: hollyturner@shaw.ca
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WINDSOR PARK

A good neighbour

Student research project focuses on our own neighbours

By Scott Lingley

A university education is typically intended to expose students to a greater sense of the world at large. But students in Human Ecology 432 have spent the semester pondering the mysteries of the unique civilization that lies just a block or two away from the University of Alberta campus.

REWIND, an exhibit in the lobby of the Human Ecology building put together by students in Dr. Anne Lambert's Material Culture in Home and Community class, focuses on Windsor Park, the community to the west of campus with a history that predates the existence of the U of A. Joanne Pattison, a fourth year human ecology student who contributed to the exhibit, said the neighbourhood offered rich and relevant subject matter for fleshing out the theories discussed in class.

"Material culture in home and community comes down to doing a study of the different things communities tend to hold on to and that homes tend to have depending on the time period they're

from, and how that indicates the social, political and economic forces happening at the time," Pattison said.

"Part of the exhibit is concerned with how Windsor Park is nested in the communities around it – within Edmonton, within Alberta, within Canada – and how those environments affect things that happen in Windsor Park, be it socially or educationally, being so close to the university, or politically, being in Alberta versus other parts of Canada, environmentally, being so close to the river valley – things like that."

Since January, students in Lambert's course have been doing research on the history of the community and how it evolved with the rest of the city. In the process they've drawn examples of household items from the university's extensive clothing and textile collection and from community donors, as well as studying the architecture styles of the neighbourhood that reflect more than a century of development. One map researched and created by students details the era in which each

existing house in Windsor Park was built, while another shows the lay of the land in 1931, when the community emanated out from a large traffic circle.

REWIND features clothing, furnishings and fabrics from Windsor Park homes of different eras, as well as facsimiles of the fronts of actual houses, recreations of signage, archival photography, and some very creative uses of the Human Ecology Gallery.

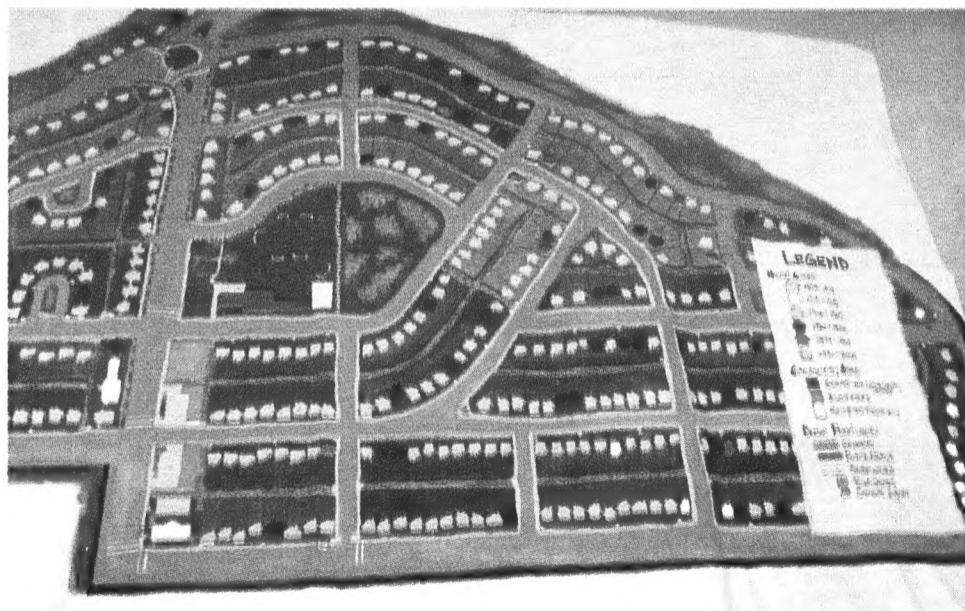
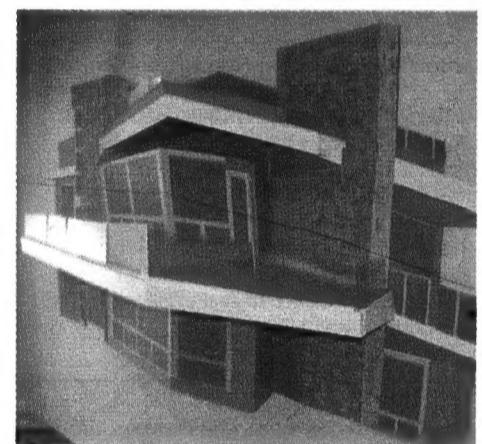
"It's a real physical transformation of the space," Pattison said.

Patrons of the exhibit will not only learn about the social history of one of Edmonton's oldest neighbourhoods and its relationship to the U of A, Pattison said, they'll also be exposed to the many facets of human ecology.

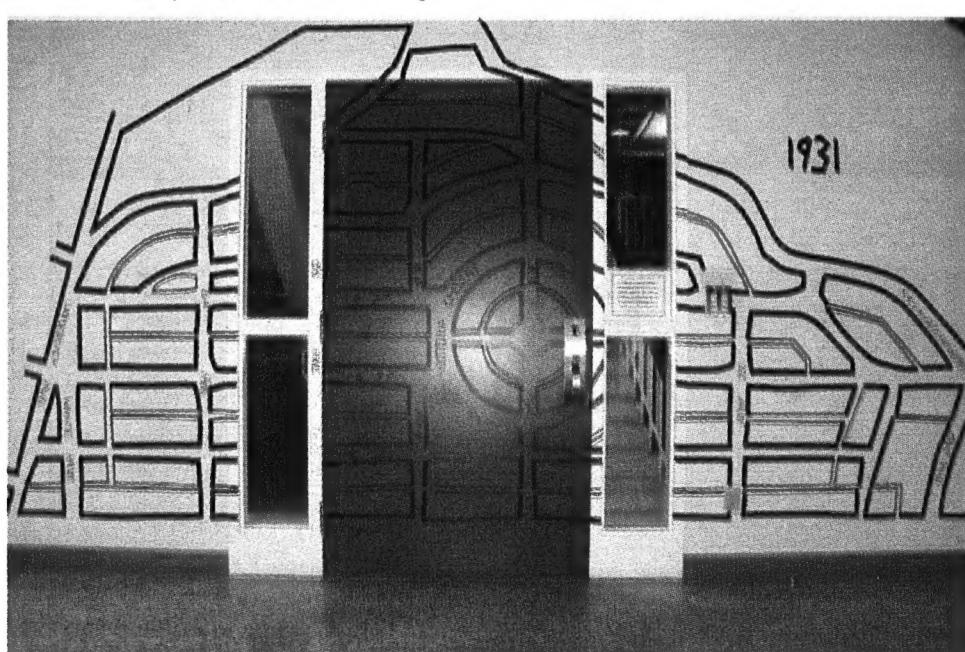
"There are several different components of human ecology – some students work in clothing and textiles, some work in family studies, some work in community studies," she said. "We'd like to see people come out and explore our exhibit,

because it's a really good example of student work and creativity from a department that's maybe not as well known as the other creative and design departments on campus."

REWIND is located in the gallery on the main floor of the Human Ecology Building at 116 Street and 89 Avenue. The exhibit runs until September 16. ■



A colour-coded map of Windsor Park, indicating the different eras of the homes.



A map of the Windsor Park area adorns a doorway in the Human Ecology Building.



Fourth year human ecology student Joanne Pattison stands beside a model of a Windsor Park home. Top photo – a smaller model is mounted to a wall.

folio back page